CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 14 1954



re and more people who suffer from headaches, gestion, colds and aches and pains are turning to

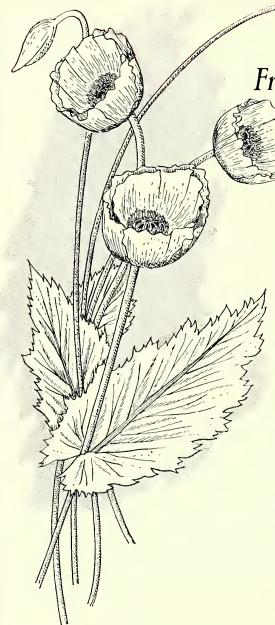
a-Seltzer for *speedy* relief. This is no idle statement. t year's Alka-Seltzer sales broke all previous records. s year greatly increased advertising in the press and mas, on tube cards and radio, is seeing to it that sales poing up and up. Alka-Seltzer is a fast seller—which ins quick turnover and more profit. Make sure you

ays have plenty in stock.

Sole distributors for

ES LABORATORIES LTD, BRIDGEND, SOUTH WALES





From the poppy....

OPIUM & OPIATES

In few other fields is 'know how' more important than in the production of Opium Alkaloids and related products, 'Know how' is not something new, nor is it acquired overnight. Dr. Thomas Smith, one of the founders of T. & H. Smith, Ltd., first investigated opium in the 1840's. His success in establishing production of morphine and its salts, together with technical progress since made by the company, particularly in the manufacture of special products for specific purposes, has made Opiates synonymous with Smith of Edinburgh.

APOMORPHINE HYDROCHLORIDE

CODEINE ALKALOID CODEINE HYDROCHLORIDE

CODEINE PHOSPHATE

COTARNINE ALKALOID DIAMORPHINE HYDROCHLORIDE

DIHYDROCODEINE HYDROCHLORIDE

DIHYDROCODEINE BITARTRATE

DIHYDROCODEINONE HYDROCHLORIDE

DIHYDROCODEINONE BITARTRATE

DIHYDROHYDROXY CODEINONE HYDROCHLORIDE

ETHYLMORPHINE HYDROCHLORIDE

MORPHINE ALKALOID MORPHINE SULPHATE

NARCOTINE

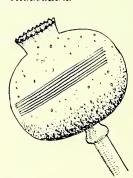
OPIUM

OPIUM POWDER

PAPAVERINE ALKALOID

PAPAVERINE HYDROCHLORIDE

PHOLCODINE



Our technical resources are at your service.

T. & H. SMITH LTD.

Manufacturers of Alkaloids, Fine Chemicals and Pharmaceutical Preparations

EDINBURGH

A New (RIKER) Product

RAUWILOID + HEXAMETHONIUM

- * LESS FLUCTUATION * FEWER SIDE EFFECTS
 - * EFFECTIVE BLOOD PRESSURE REDUCTION
 - * FULL THERAPEUTIC EFFECT FROM LOWER HEXAMETHONIUM DOSAGE

For Safer Therapy in Severe Intractable Hypertension

Each tablet contains: RAUWILOID 1 mg. HEXAMETHONIUM CHLORIDE DIHYDRATE 250 mg. Bottles of 100 and 500

RAUWILOID brand alkaloid hydrochlorides of Rauwolfia serpentina for mild forms of hypertension.

Clinical experience has shown that when Rauwiloid is combined with the potent hypotensive agent hexamethonium, a striking reduction in the sideeffects of the latter is apparent. This is due in part to mutual antagonism of side-effects, but more particularly to synergistic potentiation between the two drugs. The dose of hexamethonium in this combination can be reduced to as little as 50% of the dose of hexamethonium given alone, yet at the same time maintaining full therapeutic response.*

*Amer. Heart J. 46, 754, (1953). J. Amer. med. Ass. in press.

Bottles of 100 Tablets ... 37/- Retail ., ,, 500 ,, ... 166/6 ,, Less usual discounts. Exempt Purchase Tax.

RAUWILOID + VERILOID

for moderate to severe forms of hypertension.

"RAUWILOID" and "VERILOID" are Registered Trade Marks.

Regd. Users:

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Detailed literature on request.

Stock it ... and be in pocket!



Yes, the G.B.-Kershaw '110' Snapshot Camera hasn't been long on the market. It's a certain seller — smart, compact and moderately priced. So be sure you've got a good supply in stock.

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The Distributing Company of Kershaw Cameras is G.B. EQUIPMENTS LTD., Photographic & Optical Division, Dept.cd/8/54 Mortimer Hse., 37-41 Mortimer St., Loadon, W.1. MUSeum 5432

- Two aperture settings f/11 and f/16.
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Re-introduction of the popular CROOKES

Lacto-Calamine

HANDBAG PACK

Responding to a wide public demand we have re-introduced the 1 oz. Lacto-Calamine Lotion at the slightly increased retail price of 1/10d. (1/2d. plus 8d. P.T.).

The two original Bonus Parcels are again offered as from that date.

Every Wednesday and Friday from 10—10.15 p.m. the Lacto-Calamine and Crookes Hand Cream Radio Luxembourg programme "Dreamtime" sells to an average audience of 4 million listeners.



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ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

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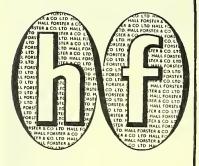
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Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'
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symbol of the Hall Forster service for the retail pharmacist

Amongst the wide range of articles we handle, we specialize in the manufacture of COMPRESSED TABLETS. Your enquiries are invited for the supply of tablets made to official and private formulae—in bulk or packed for counter sale. Special prices for quantity and contracts.

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To launch petal soft Modess MASSLINN comes the greatest advertising campaign ever in this market. Millions of women will read about these wonderful new towels in newspaper spaces and in beautiful fullpage advertisements in magazines. Advertising carries this compelling offer—a coupon entitling women to buy a 2/- packet of Modess MASSLINN from you for only 1/4d. (U.K. ONLY)

Each 8d. coupon received is worth 1/- to retailers, who should give these coupons together with their name and address to a Modess MASSLINN representative who will give a cash reimbursement. Or coupons may be posted direct to Johnson & Johnson (Gt. Britain) Ltd., Personal Products Division, 24/25 Princes Street, Hanover Square, London, W.1.

There will be a tremendous demand for Modess MASSLINN. Order adequate supplies and make sure of keeping your place in a vast profitable market.



This full colour window sticker (size $9\frac{1}{2}$ " x $7\frac{1}{4}$ ") tells your customers that they can cash their Modess MASSLINN coupons in your shop.

Modess MASSLINN mean more sales for you!

Johnson & Johnson (GT. BRITAIN) LTD., Personal Products Division, WREXHAM & LONDON



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Accurate, dependable, and of superb appearance, TABLETS manufactured and coated by the COX ORGANISATION have reached a high degree of pharmaceutical excellence.

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Proof brings PROFIT Thousands of farmers, poultry keepers, veterinary surgeons

Thousands of farmers, poultry keepers, veterinary surgeons are now convinced by practical experience that DETHMOR-

WARFARIN is the most effective rodenticide they have ever used.

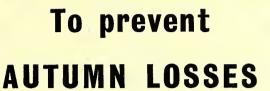
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Dethmor is the original American Warfarin now manufactured in Great Britain. It has killed rats and m.ce by the million in the United States and is already acclaimed an outstanding rat and mouse killer in this country.

- 20 times stronger than ordinary Warfarin bait
 (1 lb. of Dethmor-Warfarin Concentrate makes
 20 lb. of bait).
- Virtually harmless to livestock and domestic animals.
- Nationally advertised.
- Brings you 33⅓% profit.

Retail prices: Tins: 4 lb. 4/-, 1 lb. 13/6, 7 lb. 73/6 from your wholesaler or direct from

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For twenty years farmers have depended on the formolised whole culture vaccine to protect their flocks. Now, from The Wellcome Research Laboratories where that product was originally developed, comes the newer, more efficient 'Wellcome' brand Improved Braxy Vaccine. This improved vaccine contains the products of lysed *Cl. septicum* and potash alum precipitated toxoid. Its dose is only 2 c.c. Order stocks NOW, in containers of 50 c.c. (25 doses) and 100 c.c. (50 doses).

In braxy areas, where blackleg is also present, combined protection is best obtained by use of 'Wellcome' brand Improved Braxy-Blackleg Vaccine. Issued in bottles of 50 c.c. (25 sheep or 10 cattle doses) and 100 c.c. (50 sheep or 20 cattle doses).

'WELLCOME'... IMPROVED BRAXY VACCINE

PREPARED AT THE WELLCOME RESEARCH LABORATORIES, BECKENHAM

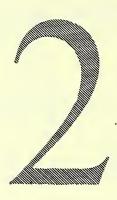


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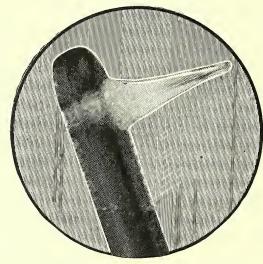


IMPORTAN ON THE

You will probably already know that the Wisdom Mouthbrush is getting increasing recommendation by dentists. As a result, demand is steadily rising.

Most dentists like the Mouthbrush because they consider that gum massage is as important as cleaning teeth, and the Mouthbrush does both jobs equally well.

The following two developments will undoubtedly accelerate this progress.



In response to requests from many dentists, have now incorporated a gum stimulator in handle of the Wisdom Mouthbrush.

The purpose of this stimulator is to massage gums in the spaces between the teeth.

The stimulator is screwed into the handle, an not required can be either unscrewed or cut off.

To encourage people to take their denti advice, we invite them to try the Wisdom Mou brush at our risk. If they do not like it after the weeks' use they can return the Mouthbrush to (not you) and we will replace it free with

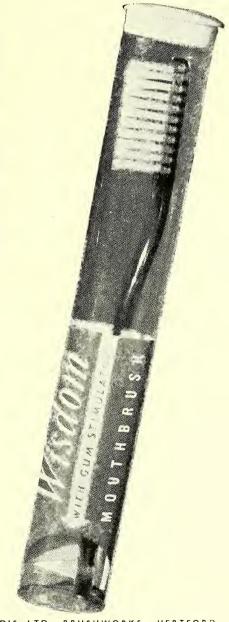
DEVELOPMENTS

Visdom MOUTHBRUSH



s ndard Wisdom Toothbrush. All they have to do is to the Mouthbrush to us at Hertford and say what kind corush they want in exchange.

This offer is advertised on a showcard, as above, lich we are enclosing with every dozen Mouthushes. If you have Mouthbrushes in stock without is showcard we will be glad to send one on request. We recommend that you should emphasize to your stomers that the brush should be sent direct to us. The Wisdom Mouthbrush is supplied in two texres—Soft/Medium and Hard/Medium. The conmer price is 2/3d. each.



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THE FAMILY TONIC

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From AUGUST 1st. 1954 The prices of Numol will be reduced as follows—

Old R Pri		Old Chemist Price	New Retail Price	New Chemist Price
4 ozs.	2/3	20/3 doz.	2/-	17/-
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16 ozs.	6/-	54/ - doz.	5/-	44/-
3 lbs.	14/-	124/- doz.	11/6	102/-

Notify us of your stock and we will send a representative to check it and will issue a Full credit note to cover the reduction and issue fresh Price Labels.

Any direct orders from Retail Chemists receive a display bonus of thirteen to the dozen.

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THAN OTHER MALT PRODUCTS

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80 ELSWICK ROAD · NEWCASTLE-ON-TYNE

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-PREPARATIONS

- LOZENGES
- TABLETS
- OINTMENTS
- AIDS TO DISPENS-ING OUTFITS for CREAM and DROPS

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The best of both worlds! In WILL O' WISP you get the fine quality you would expect from a century's experience of making Nets of all kinds. Amazingly strong and long-lasting, due to the special design and unique method of tying the terminals. Tailored to fit the head snugly, practically invisible, in every popular shade—you can rely on WILL O' WISP quality to bring them back for more

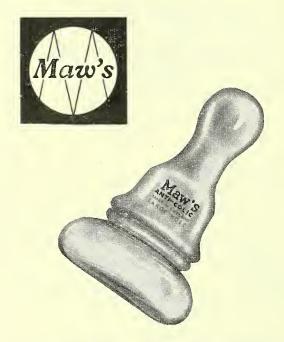


From your Wholesaler. In case of difficulty
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Fine Quality-plus forceful Display

First reeders!



DINKY FEEDER

The first name in feeders—and the first for baby's needs. A unique miniature feeder and pacifier combined. The ideal way of giving orange-juice, medicine or a soothing drink.

Introduce the Dinky to suitable customers. (You'll sell more Maw's Teats, too!)

One dozen, in attractive display outer

Retail, in outer complete with cleaning brush

14/-

1/9

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BIG NEW
SALES STORY
FOR THE
BIGGEST SELLING
WAVE SET
OF ALL

Amami Wave Set

NOW CONTAINS A WONDERFUL CONDITIONER

The new Conditioner in Amami Wave Set is a big plus—an exciting extra that will mean a new high for sales. Amami Wave Set and Conditioner is a *double* beauty product. It sets hair to perfection and improves texture and looks at the same time. The Conditioner takes out tangles before combing, makes styling quicker, easier. It imparts a satin shine and softness to the hair, yet makes the set last much longer. And the price remains the same. Millions of women are reading this news in the National Press and Magazines. Capture their custom by your displays of Amami Wave Set and Conditioner—and order extra stocks now.

GREEN Wave Set for hair of normal texture.

AMBER Wave Set for easier-to-manage hair.-





It is now announced that this important new poultry preparation, which was introduced because of its supremacy as a treatment for Fowl Typhoid, is also of great value in

PULLORUM DISEASE (B.W.D.)

NEFTIN

NF-180

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FURAZOLIDONE

is now available in 4-oz. cartons as well as I lb. cartons. The I lb. size is sufficient for a full 6-day treatment for 800 chicks.

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		TRADE	P.T.	RETAIL	
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iş.	l lb. carton	37/6	9/5	59/5	
				·	

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NFT84

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We have been extracting a very wide range of raw materials for nearly a century and have available a large and comprehensive plant, together with great experience in this work. In addition to extracting and marketing our own range of high quality drug and other extracts, we undertake the extraction of customers' materials to their own specification. Thus we can place at your disposal a suitable plant for extracting your materials—whether by the hundredweight or ton.

WE OFFER YOU OUR
EXTRACTS AND
OUR EXTRACTION
SERVICE, FULL PARTICULARS OF WHICH
WILL GLADLY BE
GIVEN ON HEARING
FROM YOU





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Stafford Allen S
NATURAL RAW MATERIAL
EXTRACTION SERVICE



of conception control
that needs no diaphragm

the barrier is built into the synthetic base

For the countless women who cannot or will not use a vaginal diaphragm, Preceptin Vaginal Gel offers a degree of effectiveness in conception control hitherto unequalled.

Its simplicity of application combined with its powerful new spermicidal system continues to confirm the effectiveness rate recorded in initial clinical studies—demonstrating contraceptive dependability greater than any previously recorded for combined techniques.

Applied with a measured dose applicator



Preceptin vaginal gel is available as follows:

Preceptin vaginal gel Package "A" (3 oz. tube and applicator)

Preceptin vaginal gel Package "B" (3 oz. tube only)

Retail price 7/-

Supplies through your usual wholesaler please!

Ortho Pharmaceutical Limited

HIGH WYCOMBE · BUCKINGHAMSHIRE · ENGLAND

Makers of Gynaecic Pharmaceuticals



Retail price 9/6

THE CHEMIST AND DRUGGIST August 14, 1954

19

It pays you

well to display it well

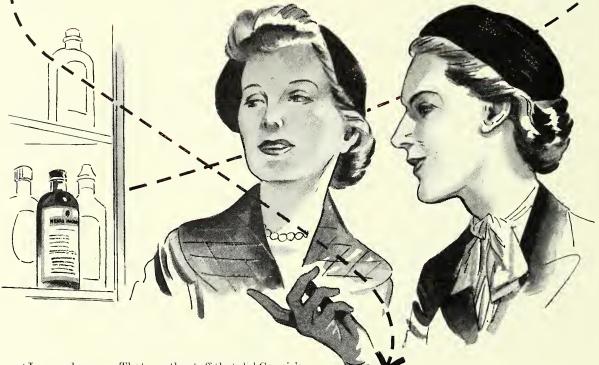


Every time you sell a 10d tablet of soap instead of a 6d tablet you boost your turnover by 66%. This is why it pays to display Field's—the soap with the wonderful lavender perfume, the attractive packing, the big publicity. Field's sells easily because it is backed by full-page, fullcolour advertising in women's magazines—and it repeats because it is such a very good soap.



Let them see Field's Buckingham Lavender

'Neuro Phosphates' ('ESKAY')



'I remember now. That was the stuff that did Connie's child so much good after his 'flu. I'd been meaning to ask her . . .'

'I could have told you - our doctor had me on it for a while. But I didn't know you were feeling run down.'

'Oh, it's not me, only father's been feeling very "elderly" lately, so after what Connie said I thought he ought to have a course of it to pick up his appetite. I'd better take some while I'm here.'

In 8-oz, bottles

Trade Price: Purchase Tax: | Retail Price: 38/7 per dozen 9/8 per dozen

Could you have anticipated that purchase and reminded the customer to get her 'Neuro Phosphates ' by any other means than point-of-sale display? Display pays hands down with a product like 'Neuro Phosphates', which has been a household word for many years.

MENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5

IMPORTANT!

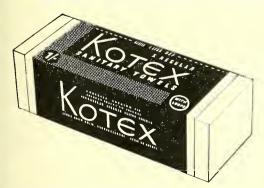
KOTEX PRICE REDUCTION!

NOW

Price reduction effective from August 1st, 1954. Your new price . . . 18/2 per dozen boxes of 12 towels. (48 boxes to each container.)

ORDER FROM YOUR WHOLESALER TODAY!







Also available in convenient narrow box. (5 towels with loops.) This price remains unchanged.

REMEMBER the striking green wrappers — ideal for display — removable, easy to serve!

CELLUCOTTON PRODUCTS LTD., LONDON



THE

MANESTY

DRYCOTA

PATENTS PENDING

COMBINED TABLET MAKING AND COMPRESSION COATING MACHINE



The DryCota is an entirely new machine for producing coated tablets by compression and has the following advantages over the alternative method of coating tablets in a revolving pan:

- Materials affected by moisture can now be coated by this dry method.
- The tablet centre is coated a fraction of a second after being made.
- Completed tablet produced immediately on one machine.
- The machine can be operated without the use of skilled operators.
- More control over disintegration can be effected.
- Tablets can be coloured if desired No polishing process required
- Tablets can be engraved or embossed Positive feeding Exact centring

SPECIFICATION

The machine is of robust construction and is made to precision limits. All parts of the transfer unit in contact with the material are made of stainless steel or are chrome-plated, to avoid contamination. The machine incorporates release mechanisms at all pressure points, to cater for any excessive overload on the machines. All cams and pressure rolls subject to heavy duty are of steel. Provision is made for lubricating all main

moving parts of the machine. Variable speed drive. Transparent plastic guards over turrets. Each hopper fitted with plastic windows. Devices are fitted to allow sampling of core and also for checking that each tablet has a centre. Ordinary compressed tablets can be made on the machine within specified limits. A complete dust extraction unit forms part of the machine. Standard D3 punches and dies can be used.

Output (coated tablets per hour) 10,000/20,000 Maximum diameter of coated tablets ... $\frac{5''}{8}$ (15.875 mm.) Horsepower required 2 h.p. 1,420 r.p.m. Motor Speed 6' 0" (182.88 cm.) Height of machine 5' 0" x 4' 6" (152.4 x 137.1 cm.) Floor space occupied ... Nett weight (including electrics and dust extraction unit) $1\frac{3}{4}$ tons (1,778 kgs.)



WRITE TODAY FOR FULL DETAILS
AND SAMPLE TABLETS

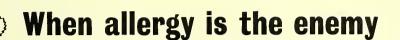
MANESTY MACHINES LIMITED

Dept. 5 · SPEKE · LIVERPOOL 19

Telephone: HUNts Cross 1972

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ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 162

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August 14, 1954

No. 3886

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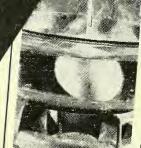
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Volume 162

AUGUST 14, 1954

No. 3886

Dangerous Drugs Changes

NEW ORDERS AND REGULATIONS

NEW Dangerous Drugs Orders and Regulations affecting methyldesomorphine, dextrorphan, dextromethorphan, N-allylnormorphine and diacetyl-N-allylnormorphine were made on July 30 and are in operation

from August 16.

The Dangerous Drugs Act, 1951 (Application) Order, 1954 (S.I., 1954, No. 1029) applies Part III of the Dangerous Drugs Act, 1951 (which prohibits import or export of any drug covered by Part III except under licence) to methyldesomorphine, and withdraws dextrorphan, dextromethorphan, and N-allylnormorphine from the provisions of that part of the Act. The provisions of that part of the Act. The Dangerous Drugs Act, 1951 (Relaxa-tion) Order, 1954, ends application of section 11 of the Dangerous Drugs Act, 1951, to methyldesomorphine and diacetyl-N-allylnormorphine. (The section prohibits trade in or manufacture of products of specified types of compounds.)

The Dangerous Drugs Regulations, 1954 (S.I., 1954, No. 1047) require that a separate register or part of a register shall be kept for methyldesomor-

Copies of all the above Statutory Instruments may be obtained from H.M. Stationery Office, price two-pence each.

PROPRIETARY COSTS **Discussions at Ministry**

AFTER discussions with Ministry of Health officials on August 9 on the cost of certain proprietary medicines, the Association of British Pharmaceutical Industry issued the following

tical Industry issued the following statement:—

As part of the general review of the prices of certain classes of proprietary preparations dispensed under the Health Service, officials of the Health Departments today opened discussions with representatives of the A.B.P.I. concerning general principles involved in determining fair and reasonable prices in this particular field. A full exchange of views took place and it was agreed that the points raised would be considered by both sides and that the discussions would be resumed later. sumed later.

similar statement was issued by the Ministry of Health.

SCIENTIFIC FILMS Congress in Rome

THE eighth annual congress and festival of scientific films is opening in Rome on November 6 with a gala film show of recent outstanding films. Specialised films and papers are being presented during the following week, including some of medical and veterinary interest. British inquiries should be sent to the Scientific Films Association, 164 Shaftesbury Avenue, London; overseas inquiries to Segreteria VIII, Congresso Internazionale della Cinematografia Scientifica. Commissione per la tografia Scientifica, Commissione per la Cinematografia Scientifica del Consiglio Nazionale delle Ricerche, Piazzale delle Scienze, 7, Rome.

DOCTORS FOR U.S. To exchange information

AS part of an effort to stimulate exchange of scientific medical information with western European countries, European doctors arc being awarded post-graduate training in the United States by the United States Foreign Operations Administration, it was announced in London on August 10. The doctors chosen will include specialists and medical scientists, as well as younger men showing promise. They will take part in study and research in American universities and medical laboratories and in practice in hospitals. Fellowships of three to six weeks will be provided for the more experienced specialists, who may require brief study of a particular development in American medicine. Those may comprise about a third of the total. Another third are expected to stay for a year in the United States, and the remainder will stay two or three years.

EXPORTS TO PERSIA Information offered

WITH the announcement on August 5 about the agreement that has been reached in the negotiations on Persian oil, it is expected that there will be fresh opportunities for United Kingdom firms to supply goods and services needed by the Consortium and the National Iranian Oil Company. Exporters requiring specific information about exports to Persia are invited to write or telephone to Commercial Relations and Exports Department, Board of Trade, Horse Guards Avenue, London, S.W.1.



FACIA PANEL AT A PHARMACY: The carved wood panel illustrated forms part of the facia of Claude Benton's new pharmacy in London Street, Norwich (see p. 164). It represents an alchemist at work, blowing a bellows to increase the flame around the crucible in his attempt to produce the philosopher's stone. The carving was carried out under the direction of the Norwich architect Mr. J. P. Chaplin.

MEDICAL RESEARCH Work done in 1952-53

THE following is a summary of research carried out by the Medical Research Council during 1952-53. The main report was given in the C. & D., August 7, p. 131.

Field study of chemotherapeutic effect of arsenamide in filariasis; synthesis of compounds related to hetrazan in the search for improved antifilarial activity; search for improved antifilarial activity; relationship of structure to antimalarial activity in diaminoheterocyclic compounds; demonstration of rôle of dietary p-aminobenzoic acid in affecting susceptibility to malarial infection; further studies of antituberculous effects of polyoxyethylene ethers, in particular the development of a cyclic tetramer with high antituberculous activity and relatively low toxicity; investigation of chemotherapeutic properties of a new compound containing p-aminosalicylic acid and thiosemicarbazone groupings in the same carbazone groupings in the molecule.

Experimental, study of the process of

fertilisation in the mammal and of substances that may affect that process, Discovery that the common cold virus could be cultivated *in vitro* in human embryonic lung (see C. & D., September 19, 1953, p. 281).

Establishment of new international standards for anti-brucella abortus serum, scarlet fever streptococcus antitoxin, staphylococcus β-antitoxin, dimercaprol and purified protein derivative of mammalian tuberculin; collaborative assays in manan tubercuin; collaborative assays in preparation for establishment of international standards for aureomycin, terramycin, bacitracin and dihydrostreptomycin; collection of material for British standard for pertussis vaccine and for British working standard for corticotrophin

Investigation by the Clinical Chemo-therapeutic Research Unit, Glasgow, on action of sodium salicylate in rheumatic

fever, Research on the effects and therapeutic value of cortisone in exfoliative dermatitis, eczema and contact dermatitis by the Unit for Research on the Experimental Pathology of the Skin, Birmingham, and studies by that unit, of allergens from flour treated with agene and suspected of causing raphes: causing rashes.

> ATOMIC ENERGY New Authority takes over

ON August 1 the United Kingdom Atomic Energy Authority took over responsibility for atomic energy research and development from the Department of Atomic Energy. The establishments that will be taken over by the authority include the Atomic Energy Research Establishment at Harwell with its dependency, the Radiochemical Centre at Amersham.

STUDY LEAVE Hospital pharmacy regulations

HOSPITAL pharmacists wishing to attend refresher courses, examinations, or conferences may be granted leave up to thirteen weeks by the employing authority whether the salary is continued or not, according to a recent Whitley Council Agreement (P.H. Circular No. 17). If salary and expenses are required, the consent of the Regional Hospital Board is needed. Similar authorisation is necessary for any leave of over thirteen weeks, but less than one year. If expenses and/or salary for that period are to be paid, the Minister's consent must be obtained. Payment of course fees also requires Ministerial approval, as does payment of travelling and subsistence expenses involved in sitting for an examination.

FIRST DERBYSHIRE FINES

FOR the first time in Derbyshire since the introduction of the National health Service, four pharmacists are having sums of money withheld from their remuneration if the Minister of Health accepts the recommendations of the Derbyshire Executive Council. Sums of £1 ls, and £5 5s. respectively were recommended to be withheld from two pharmacists accused of inaccurate dispensing, and in the other two cases, in which it was alleged prescriptions had been dispensed in the absence of a qualified pharmacist, amounts of £15 15s. and £26 5s. were recommended to be withheld. Commenting on the cases, the chairman of the Executive Council said that they were the first in Derbyshire since the National Health Service started. hoped that they would be the last, but it did show that chemists had been doing their job properly in the past.

POLIOMYELITIS

ACCORDING to the Registrar-General's returns for the week ended July 31, there were ninety-four cases of acute poliomyelitis notified, compared with ninety-one during the previous week. During that week there had been an increase of twenty-eight over the week ended July 17, but the overall figures are considerably lower than those given for the corresponding period in 1954, when 270 cases were notified. Cases have recently been confirmed near Balloch, Dunbartonshire, and at Ashford, Kent, and a further case at Ipswich brings the number of cases there to eight.

ZINC IN PRESERVES

THE Birmingham city analyst has issued a warning to housewives against using galvanised pans for making preserves. His warning was issued at the request of the public health committee after he had reported to them the finding of zinc deposits in home-made marmalade. The analyst states that jam and marmalade should be made in aluminium or copper pans, since "spectacular amounts" of zinc could be absorbed into boiling fruit mixtures from galvanised pans. It was not danbut produced a powerful gerous, emetic.

COUNCIL IN COLWYN BAY DURING the visit of the Council of the Pharmaceutical Society to Colwyn Bay for its next meeting (see C. & D., August 7. p. 137), members will be guests of the local municipal authority at a concert on October 3 and at dinner the next day when a visit will be made to Caernarvon, Anglesey and Conway. The Council will in turn entertain members of the authority to dinner on October 5.

STANDARDS YEARBOOK

THE 1953 edition of the Britsh Standards Yearbook was published recently. It gives a list of 2,500 British Standards current at March 31, 1954, with a brief description of the subject matter of each. Copies of the yearbook may be obtained from the British Standards Institution, British Standards House, 2 Park Street, London, W.1, price 12s. 6d.

PHARMACISTS IN YORK

MEMBERS of the Sheffield Pharmacy Club who visited York recently were met by Mr. D. R. Anderson (Stemco, Ltd.) one of a corps of voluntary guides to York, who conducted the party on a tour of the city. The Club held a treasure hunt next day and on a later occasion seven cars took part in a mystery tour through parts of the Peak District.

INSURANCE CARDS

THE Ministry of Pensions and National Insurance reminds employers and insured persons holding blue inand insured persons holding blue insurance cards that they should be exchanged for new yellow ones at local Pensions and National Insurance offices as early as possible between September 6 and 11. Each card should bear the full address of the contributors. butor.

D.D. AUTHORITY RESTORED

THE Home Secretary has restored to Mr. Alexander Watt, M.B., Ch.B., from August 6, authority to be in possession of, to supply or to give prescriptions for Dangerous Drugs. It was withdrawn from him in April 1949.

SCOTTISH NEWS TEACHING OF CHEMISTRY

THE PRINCIPAL of the Edinburgh and East of Scotland College of Agriculture (Professor S. J. Watson) told a meeting of governors in Edinburgh recently that the quality of students at the college during the past year had been below standard. Only ten out of twenty-nine candidates for the Scot-tish diploma in agriculture had passed in all subjects. Most of the students had failed in chemistry. MR. J. E. insufficient RENNIE suggested that training in basic chemistry was given JAMES in the schools. Professor RITCHIE (Edinburgh University) said that that criticism applied also to the study of biochemistry by medical stu-

PEPTIC ULCER RESEARCH

OUTLINING the work of the regional physics department of the Western Regional Hospital Board at a meeting of the Board in Glasgow recently, Dr. A. K. Bowman (senior administrative medical officer) said that one of the department's most inter-esting developments was the produc-tion of what was believed to be the smallest Geiger counter in the world. It had been produced at the request of the department of surgery at Glas-gow University which was conducting research into the causation of peptic Radioactive isotopes were ulceration. being used by the department in their investigations. Great difficulty was experienced, said Dr. Bowman, in finding apparatus sufficiently sensitive to assist interpretation of what hap-pened in the stomach walls after injection of radioactive isotopes. Dr. J. M. A. Lenihan, the board's physicist, and his staff, produced suitable apparatus about "the size of the end of a fountain pen" which "did its work inside the stomach itself." Dr. Bowman also said that it was hoped to develop "a revenue-producing scheme for the recovery of silver from the fixing solutions employed in the many x-ray departments throughout the region." Silver so recovered might save £5,000 a year or more, and the fact that it was pure silver was particularly useful to the manufacturers of x-ray films because it did not need to be refined.

NEWS IN BRIEF

OXFORD Regional Hospital Board is asking the Minister of Health to discuss with manufacturers means of improving the labelling of drugs.

SALARY increases for about 5,300 officers on the administrative and clerical staff of the National Health Service have been granted recently.

WIRRAL council has ruled that the pharmacy and general shop now being built on the Pensby housing estate shall be allowed to open on Sundays until 1 p.m.

A COUNTY laboratory under the fulltime supervision of Mr. Joseph Markland (deputy public analyst to Derbyshire county council) is being built by Durham county council.

FOUR "lock-fast" boxes of a special type for conveying Dangerous Drugs are being purchased by the management committee of the Dartford hospital group, Kent, as a new safety measure.

AIRCRAFT are being used to spray a DDT emulsion in a campaign to eradicate the pine looper pest which is threatening more than 100,000 trees in the conifer forest of Cannock Chase, Staffs.

Of two children from Farningham, Kent, admitted to hospital at Dartford recently after swallowing slimming tablets, one, aged twenty-two months, is seriously ill but the other, aged three, is recovering.

CHEMISTS who live on their premises in Southampton will maintain late night dispensing of urgent prescriptions throughout the year instead of during the winter months only, according to a report at a recent meeting of Southampton Executive Council.

SPORT

Golf.—EDINBURGH CHEMISTS' GOLF CLUB, at Mortonhall recently, competition for Thornton & Ross prize won by J. Findlay (6), 62, Best No. 1 section and scratch score: J. Findlay, 68; No. 2 section: J. A. Smith (18), 67.

LOCAL OFFICERS

PHARMACEUTICAL ASSOCIATIONS
London (Western) Pharmacists' Association
and Branches of the Pharmaceutical Society and
the National Pharmaceutical Union.—President of
the Association and Chairman of the Branches,
Mr. W. T. Pratt; Vice-president and Vice-chairman, Mr. C. Evans; Treasurer, Mr. D. T. Jones;
Social Secretary, Mr. C. Evans; Assistant Secre
tary, Mr. I. H. Williams; Secretary, Mr. S. J.
Turner, 809 Harrow Road, London, N.W.10.

TOPICAL REFLECTIONS

By Xrayser

Sound Progress

I welcome, with you, the fact that some agreement has been reached by the Central Contractors Committee with the Minister of Health on the methods to be adopted for pricing prescriptions during the next twelve months (p. 130). The satisfactory result now obtained, even though only temporary, is at least an illustration of the principle that to take one step forward at a time is generally a good policy. On the desirability of securing accurate payments for work done or service given there can surely be no argument. The task now before the Central Committee is to demonstrate that full pricing can be secured at no extra cost, or alternatively, if some extra cost is inevitable, that there are compensating advantages to the Ministry in obtaining complete statistics concerning the cost of the prescriptions issued by all doctors. Now that this stage has been reached, and the value of the Committee's practical suggestions has been admitted by the Minister, individual pharmacists must do their part in carrying out this experiment. Sorting of prescriptions must be carefully done, for results most favourable to the claims put forward can only be secured by the willing co-operation of every contractor in support of the Committee's suggestions.

Targets and Aims

The provision of the national pharmaceutical service now constitutes a large part of the daily duties carried out in almost every pharmacy. Terms for the work should be fair and payment prompt. The Central Committee consider that, so far, sound progress has been made towards their objective. Given a continuance of goodwill, agreement on the larger questions should not be impossible. Full pricing is the target of the Committee. The Minister's present argument is that a high standard of accuracy is attained under existing arrangements and he would not be justified in spending more money merely (as I may put it) to turn a near miss into a direct hit. Both parties have agreed to work together for a time until the results of an experiment can be known. Whatever the result, that experiment will have had its value, for even if, in the last event, the principle of averaging in the computation of chemists' accounts is not entirely eliminated—and the Minister makes no promise that it will be—I suggest that the figures that may be calculated from three months' consecutive pricing in full will tend to keep the average figure adopted for each individual contractor at a higher level of accuracy than is obtainable at the present time.

Second Thoughts

When I reflect that our qualification has been hardly won, that it entitles every pharmacist to valuable privileges, and that to many it is an essential prerequisite to earning their daily bread, I find it difficult to understand why the names of so many pharmacists are removed from the register each year, when, as indicated by the registrar (p. 137), the majority are subsequently restored. Pharmacists who are no longer registered cannot carry out N.H.S. duties, and Executive Councils, when notified, are prompt to take action in these matters. One can hardly believe, therefore, that these movements are in respect of active contractors. I visualise the defaulters as, possibly, not directly engaged in retail pharmacy and naturally disinclined to pay registration fees. Having notified withdrawal, they subsequently experience some nostalgic reaction and seek restoration at the hands of a longsuffering registrar. Whatever may have been the cause of their defection and reinstatement, I would direct their attention now to the Council's action in asking the Law Committee to review the procedure, for it may be that, in the future, once the moving finger of the registrar has erased their names from the roll, not all their piety nor wit shall lure it back to effect their restoration; nor all their tears reinstate them among their more worthy colleagues.

EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held by the Pharmaceutical Society in England and Wales in July (†=certificate withheld pending evidence of practical training or age):

†Agrawal, Surendra K., Lewisham Alcock, Robert A., Ormskirk †Anderson, John A., Wolverhampton Armson, Marian H., Leicester †Barturan, Dorothy M., Cheadle Hulme †Bass, Alan, Edgware Bathurst, Eric N., Woburn Sands †Bell, Robert M., Bournemouth Biffin, Donald H., Wolverhampton †Blair, Ian F., Bradford-on-Avon Bourne, Vida J., Hull †Bradburn, Arthur B., Southsea Brewer, William G., Pontefract Brint, Dennis F., St. Helier †Brodie, Alfred R., Thundersley Brown, Michael R. W., Wallasey Buckingham, Nigel J., Romsey Budge, Derek J., Newbury Burkinshaw, Maurice, Doncaster †Bussey, Trevor K., Cambridge †Campbell, Sheila M., Leicester †Carswell, Hester J., Coventry †Cawood, Margaret J., Scarborough †Chaffer, Barbara D., Burnley Challis, Ronald A., Cheltenham †Chilman, Eleanor F., Ealing Chislett, Iris M., Stonehouse Christie, Robert B., Eastbourne †Clitheroe, Margaret M., Southampton †Cobb, Gerald G., Bath †Collins, Margaret M., Belvedere Cook, Alan J. H., Plymouth Cooke, Anne M., Tonyrefail Copus, Peter J., Abbey Wood Corden, Denis, Pulborough Cosway, Clive, Leeds Crowe, Alan G., Wolverhampton Currie, Brian, Heckmondwike †Curry, John P., Stafford †Daly, Dorothy M. A., Herne Hill †David, Leo, Cardiff Davies, Maurice, Bolton †Douglas, Alexander R., Hitchin Douglas, Alexander R., Birmingham Fishwick, Sasil A., Liverpool Fishwick, Keith, Wigan Fox, Brian F., Bournemouth French, Terence M., Northampton †Fry, Michael C., Southsea Gale, Joan S., Birmingham Fishwick, Basil A., Liverpool Fishwick, Reith, Wigan Harrison, Roger, Hove †Haynes, Joyce M., Leicester †Heathcote, Jennifer, Birmingham Heldlam, Graham A., Couddiff †Harrison, Roger, Hove †Haynes, Joyce M., Le

†Howells, Jeanetta R., Folkestone
†Hughes, Sidney T., Birmingham
Ioannides, Christos M., Cyprus
†Jackson, Kenneth G., Sheffield
Jackson, Roy R., Moston
†Jennings, Terence E., Nottingham
Jones, Arthur N., Machynlleth
†Jones, David, Wigan
Keep, Gerald, High Wycombe
†Leach, Mildreth H., Oxford
†Leitch, David E., Birmingham
Leonard, David, Bristol
Leverett, Joy E., Wirral
†Levy, Kalman B., Manchester
†Lichtenstein, Eric, Willesden
†Lloyd, Anne D., Tipton
†Longworth, Stanley J. H., Plymouth
†Loxton, Joan, Leicester
†MacDouell Shile M. C. Hameston

Lichtenstein, Eric, Willesden
†Lioyd, Anne D., Tipton
†Longworth, Stanley J. H., Plymouth
†Loxton, Joan, Leicester
†MacDowell, Sheila M. G., Hampstead
McLeod, Audrey J., Wolverhampton
McNulty, John, St. Helens
†Maltby, Eileen M., Chesterfield
†Martin, David J., Wolverhampton
Mason, Robert B., Liverpool
†Matthews, James N., Nottingham
†Michalewicz, Blanka M., Tooting
†Mills, Reginald T., Sheffield
Misson, Thomas W., Harrow
†Molyneux, John, Bury
†Moore, Margaret N., Pontefract
†Moore, Michael D., E. Croydon
†Morris, Gerald M., Manchester
†Munglestone, Keith, Normanton
†Mulholland, Aileen M., Manchester
†Munns, Keith I., St, Albans
Neal, Patricia, Newark
Norris, Barbara H., Middleton
Onyett, Ralph N., Beeston
Oowen, David T., Pontypool
†Parsons, Anthony J., Eastbourne
†Pascoe, David, Norwood
†Patterson, John S., Luton
†Pearson, Robert, Cardiff
†Peet, Harold L., Southport
Pemberton, John W., Douglas
Peterken, Andrew G., Exeter
Phillips, Jack, Wadebridge
Porter, Colin H., Bolton
Porter, Joan M., Liverpool
†Porter, John D., Clacton
Preddy, Leonard J. F., Ross-on-Wye
†Price, Sheila A., Birmingham
†Provost, Donald H., Aldbridge
†Pugh, Jacqueline O. M., Bridgend
†Renton, Audrey I., Four Marks
Rew, Kenneth R. C., Swansea
†Rigby, Geoffrey J., Wigan
Roberts, Paul A., Llandudno Junction
†Rogers, Edwin A., Finsbury Park
†Rowland, Edward S., Wanstead
Ruffhead, Alan J., Goudhurst
†St. Barbe-Baker, Patricia A. M., Oxford
†Sefton, Phyllis, Lower Clapton
Sewell, Geoffrey B., Droitwich
Sheddick, Audrey, Cardiff
Sheffield, Peter G., Hertford
Shewan, William L., Bristol
†Simister, Brenda E., Bexhill-on-Sea
Skinner, Brian J., Folkestone
Slater, Ellis W., Timperley
†Smith, Michael S., Birmingham
†Spencer, Malcolm G., Birmingham
†Spencer, Malcolm G., Birmingham
†Spencer, Malcolm G., Cottingham
Teal, George A., Kidlington
Thomas, John R. Birmingham
†Thomas, John R. Birmingham

Stantorin, Sietla A., Sieherd Sturt, Mollie, Edmonton Styles, Raymond E., Cottingham Teal, George A., Kidlington Thomas, Derwyn L., Birmingham †Thomas, John B., Birmingham †Thomas, Roy, Kew †Thomson, Elsie S., Altrincham †Tregunna, Gillian M., Shanklin Usden, Mark, Manchester Wakeford, Neville R., Eastbourne †Walker, Margaret O., Birmingham †Walker, Peter S., St. Annes-on-Sea †Walton, Alan, Cleveleys Watson, Ronald C., Ripley †Wheatley, Josephine A., Hinckley Whitehead, George A., Golcar Whittam, John M., Leeds †Wicks, Ronald G., Scarborough

† Williams, Barbara M., Nottingham † Williams, Hugh L., Crewe Williams, John, Crewe † Wilson, Alan, Leicester † Wilson, Peter, Lewes Wisby, Charles E., Brighton † Wood, Richard A. P., Sittingbourne † Woodruff, Jean L. S., Linthorpe

Scotland: Qualifying

THE following candidates satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held in

†Allan, Elizabeth M., Tranent Allen, John A., Halifax Allinson, Jean W., Bradford Altman, Sydney L., Glasgow Anderson, Kathleen E., Wimbledon †Aumeerally, 'Ayoob, Aberdeen Bell, Gordon H., Walthamstow †Blaney, John G., Crewe †Brown, Joyce M., Ryton-on-Tyne †Bullock, Elizabeth M., Edinburgh †Cairns, Elsie, Sunderland Cardus, James, Leeds †Cartlidge, Alma, Ryhope †Charlton, Thelma, North Shields †Christie, Janice M., Fraserburgh †Crystal, Francis J., Edinburgh Cowan, Muriel E., Liverpool †Cowen, Dennis M., Leeds Crawford, Elizabeth M., Bootle †Cruickshank, Victor M., Cruden Bay Curwen, Lyall N., Newcastle-on-Tyne †Dobson, Brian, West Hartlepool †Donnelly, Mary A., Thornliebank †Elbogen, Michael R., Leeds †Eensell, Jean E., Gateshead †Fearnley, David, Leeds Feeney, Wilfred T., St. Helens Fieldhouse, Harry, Hepperholme †Fishwick, Mary, Edinburgh Fleming, Norman J., Liverpool †Gavin, Kathleen, Peterhead †Girvan, Robert W. R., Glasgow †Gladwin, Margaret J., Sunderland †Glennie, William J., Aberdeen Greig, James R., Carlisle †Grime, Audrey, Tooting Grundy, Michael L., Liverpool †Hartris, Sonia E., Droitwich Hepworth, June E., Bradford †Hewitson, Mary H., Carlisle †Hildreth, Elsie, Newcastle-upon-Tyne Hiles, Margaret E., Blyth †Hodges, Ruth E., Romford Holden, Norma, Liverpool Holme, Henry K., Bassenthwaite †Holt, Frederick, Paisley Hood, Thomas E. M., Troon Hurst, David A., Ilkley †Hutchinson, Ann S., Leeds †Irvine, James, Glasgow Jacks, Frances A. M., Ludlow Jackson, Enid, Halifax †Jacobson, Leon, Liverpool †Jannetta, Bernard J. Q., Edinburgh †Jarvie, Margaret I., High Burnside Jenkins, Arthur M., Swansea Johnstone, Irving R., Carlisle †Jones, Stuart W. H., Brighton †Kiamtia, Gustave G., Aberdeen Lewis, Barry M., Widnes †Littlewood, Anne, Chester †Livingstone, Audrey R., Leeds †Lumsden, Robert J., Aberdeen †Marshall, Keith, Leeds Martindale, Raymond G., Barrow-in-Furness

Furness
Medley, Roy S., Highbridge
Menzies, Lorna C., Inverness
†Midgley, Malcolm K., Bradford
Milton, George R., Aberdeen

†Moffitt, Edwin P., Newcastle-upon-Tyne
†Moir, Lucie, Strichen
Morley, Ernest W., Wembley Park
Murison, Edna M., Strichen
†Murray, Martin H., Strathaven
†Naismith, Mary C., Glasgow
†North, Gillian H., Bradford
†Oakes, Thomas H., Barrow
Ogilvie, Christine S., Edinburgh
†Patterson, Jean A. G., Norton
†Perkins, Hilda G., Plymouth
†Renfrew, William, Bebington
†Richardson, David W., Dundee
†Roberts, David A., Dewsbury Tyne †Roberts, David A., Dewsbury Roberts, Eileen M., Northampton †Robson, Elizabeth L., Aberdeen Roberts, Eileen M., Northampton
†Robson, Elizabeth L., Aberdeen
Ross, Charles D., Leeds
Ross, Maria H., Insch
†Rowlands, Harold, Liverpool
Sadler, Harold S., Middlesbrough
Samulaitis, John, St. Helens
†Santer, Malcolm, Liverpool
Savage, Gordon, Stockport
†Scanlon, Rita C., Bradford
†Scott, Ian M., Newcastle-upon-Tyne
†Shah, Maganlal M., Mombasa
†Sharpe, Kenneth D., Liverpool
Sheldrake, Stephen W., Newark
Simmonds, Betty E., Birkenhead
†Sinclair, Andrew J., Halkirk
†Smethurst, Roy S., Liverpool
Smith, George T., Edinburgh
Southwell, Sydney, Carlisle
†Smith, George T., Edinburgh
Southwell, Sydney, Carlisle
†Strachan, John S., Inverallochy
Tagget, Dorothea J., Plymouth
†Thompson, Gerald E., Workington
†Thompson, Gerald E., Workington
†Wardell, Alan E., Upminster
†Waterson, Hugh F., Liverpool
Watkins, Robert, Croydon
†Watt, Amelia D., Edinburgh
†Wearmouth, Olive, Bishop Auckland
†Willox, Cora F., Aberdeen
†Wiseman, Dorothy W., Aberdeen
Woodhall, Donald, Leeds

Scotland: Intermediate

THE following candidates satisfied the examiners in the Intermediate examination held in Scotland:-

ALLENBY, W. M., N. Ferriby; ATKINSON, Joyce M., Hessle; BANNERMAN, J. P., Glasgow; BEKELE, S., Edinburgh; BINKS, P. J., Wakefield; BLACKLEY, H., Dundee; BOOTH, G. N., Leeds; BREWIS, J. H., Hebburn; BROWN, Florence, T. Dunder, BROWN, Area M. Now. Reid; Blackley, H., Dundee; Booth, G. N., Leeds; Brewis, J. H., Hebburn; Brown, Florence F. F., Dundee; Brydon, Anne M., Newcastle-upon-Tyne; Budhleo, V. D., Edinburgh; Caldwell, J., Glasgow; Chapman, H. H., Bishop Auckland; Charlton, W. R., Bedlington Station; Clayton, Margaret, Nelson; Cochrane, L. W., Dundee; Coogan, Anne J. T., Bradford; Corless, J. D., Hull; Craw, G. R., Glasgow; Dorman, A., Stamford; Drummond, D. B., Edinburgh; Dunbar, Ishbel M., Glasgow; Dunning, C., Malton; England, K., Wakefield; Farquerson, Catherine M. W., Aberdeen; Farrer, Joyce, Leeds; Gallacher, Margaret M., Glasgow; Garnett, J. R., Bradford; Graham, G., Newcastle-upon-Tyne; Govan, A. H., Edinburgh; Greenwood, Carol M., Baildon; Haughey, Mary B., Baillieston; Hourston, G. M., Edinburgh; Humber, G. W., Preston; Jacques, A. D., Skipton; Jappy, J. S., Aberdeen; Johnston, Anne S., Edinburgh; Keighley, Joan M., Hull; Kellock, Joan, Johnstone; Keer, deen; Johnston, Anne S., Edinburgh; KEIGHLEY, Joan M., Hull; KELLOCK, Joan, Johnstone; KERR. Annie M., Forfar; KHAMBIYE, O., M., Edinburgh; KIME, J. L., Doncaster; LUND, Mavis B., Bradford; McAleer, A., Glasgow; McCollam, H., Bradford; McDade, W. S., Rosyth; McFeat, Florence, E. G., Glasgow; McIntosh, Brenda, Hull; McKean, Sheila M., Paisley; McManus, W. E., Glasgow; MacMurray, D., Loanhead; Mangla, T., Edinburgh; Meikle, Joan M., Edinburgh; Murses I. Bradford; Morris A. G., burgh; Milnes, J., Bradford; Morris, A. G., Dundee; Moyes, Brenda M., Wallsend; Murr, Patricia E., Glasgow; Murray, Jean P., Dundee; NAUDE, J. D., Edinburgh; NFIL, J. M., Selkirk; NEWSOME, R., Leeds; PATERSON, T. R., Hamilton; PEARSON, R. M., Edinburgh; PETTY, E. J., South Shields; READ, H. B., Skipton; RICHARD-

son, C. McL., Wallsend: Robertson, Elizabeth M., Edinburgh; ROBERTSON, I. B., Glasgow; ROBSON, Olive M., Newcastle; ROTHWELL, Margaret, Sowerby Bridge; SAMPSON, Shirley, King-Ston-upon-Hull; Scarborough, R. F., Leicester; Scott, Mavis A., Hull; Sharp, Joyce A., Dewsbury; Smille, Catherine S., Glasgow; Smith, Elizabeth C., Peebles; Snoddy, J. B., Kirkealdy; Suoarman, S. T., Hull; Tagoe, N. O. M., Sunderland; Tait, I. S. R., Aberdeen; Tait, J. R. S., Fraserburgh; Taylor, M., Huddersfield; Thomas, C. T. K., Bradford; Thomson, Kathleen M., Dundee; Turrinull, Josephine M., Brighouse; Turrin, Margaret A., Hull; Walker, Florence, New Deer; Watson, A. H., Irvine; Watt, J., Huntly; Wilson, Mary, West Hartlepool; Wood, G., Sunderland; Wood, P., Edinburgh; Wood, R. A., Windygates; Wrigley, C. J., Leeds; Yellowly, Angela M., Newcastle; Young, Audrey, Sunderland; Young, Janet F., Coatbridge. ston-upon-Hull; Scarborough, R. F., Leicester;

London B.Pharm.

THE following were the successful candidates in the July B.Pharm. (internal) examination of the University of London:-

FIRST CLASS HONOURS Barrett, Arthur M. Bartlet, Alan L. SECOND CLASS HONOURS Allen, Michael E. Atkins, Eleanor M. Beadle, John S. Bishop, David A. Botting, Jack H. Davies, Sheila Hughes, Gordon M. Iketubosin,
George O.
Janes, Richard V. Richards, Robert M. E. Robins, Eric L. Salomon, Celia J. Sluce, Jill E. М. Н. Davis, M. J. Ellison, Aileen B. Evans, Anthony J. Farrell, Francis G. Souch, Frederick W. Sussman, Sybil R. Turner, David H. Haynes, Margaret F. PASS

Ashcroft,
Constance E.
Dover, Marian J.
Elliot, Donald S. S.
Essenhigh, John F. Humphrey, Eric W. C.

Allen, Mary F.

Price, Joseph Prince, Joseph Prince, Ronald Rose, Gillian M. Royles, Robert G. Tait, Malcolm A. Taylor, Ian C. Tietz, Marianne F. Wright, Philip J. Moodley, Sashagrie V.

Neal, John L.

Nixon, Joseph R. Parkinson, John M.

Parratt, James R.

Parratt, James A., Pelling, Christopher A, Phillips, Philip M. Pollard, Hannah B. Poulter, Marlion Relph, Sidney J. Richards, Eric Pobinson, Ann E.

Shacklock,
Patricia A.
Silver, Brian A.

Frederick W.

Simmons, Monty Spence, John

Thomas, Ifor L. Vosper, Hugh

Teather,

The following have passed in Part I:-

Arthur, Michael B. Bloor, Philip J. Brittain, Roy T. Brittam, Chapman, George T. Coram, Ann J. Eyre, Kenrick S. Galer, David W. Galer, David W.
Gardiner, Robert N.
Gartside, Barbara
Grigg, Patricia A.
Hawkins, Janet S.
Hewett, Beryl N.
Himsworth, Shirley
Horlington, Michael
Lones Lohn E.

Jones, John E. Marels, Pamela J. L. Margetts, George Marks, Neville Maybrey, Joan M. Mills. June E. Natoff, Ian L.

Welchman, Alan J. Wilson, Barbara The following passed the external examination:-

SECOND CLASS HONOURS

Pickens, Joan T. The following passed the external examination in Part I:—

Palmer, Cecil H. R. Smylie, David G. Swift, Douglas Webb, William H. Curry, Tom H. Gottlieb, Stanley G. Hallam, Brian Shipstone, Thomas W. Wright, David

Ireland

FIFTY-EIGHT candidates (including four dispensing Chemist and Druggist candidates) sat for the Part II Licence candidates) sat for the Part II Licence examination held in July by the Pharmaceutical Society of Ireland. The following passed: Michael W. Burke, Mary Byrne, Thomas Carley, William Crowley, Anne T. Daly, John M. Daly, Thomas F. Fitzmaurice, Julia Gamble, Patrick J. Gildea, Redmond McCarthy Kathleen McGarvey Gamble, Patrick J. Gildea, Redmond McCarthy, Kathleen McGarvey, Bernard McGirr, Gerald Maguire, James Maher, Francis J. Murray, Malachy O'Brien, William O'Connell, Honora O'Regan, Anne H. O'Reilly, Mary Sheehan, Alphonsus J. Sweeney, Mary Timlin, Ellen Twomey, Eamonn Walker

Walker.
The following passed the Dispensing Chemist and Druggist examination: Gerald Ryan, Peter Dowling, Hugh McElhinney, Elizabeth Conaty.
Nine candidates sat for the Assistants' examination and the following passed: Thomas Leo, Ethel Kelly, John G. McHugh.
The Registered Druggist examination was passed by Michael J. Lynch and Patrick J Mulroney.

U.S. PHARMACOPEIA

New monographs in supplement

THE Fourth Supplement to the Pharmacopeia of the United States XIV provides for the addition of two new monographs. Vitamin B₁₂ WITH INTRINSIC FACTOR CONCENTRATE is described as a preparation possessing vitamin-B₁₂ activity made more readily assimilable from the gastro-intestinal tract by combination with suitable preparations of the mucosa of the stomach or intestine of domestic animals used for food by man. The approximate anti-anæmia potency of vitamin B₁₂ with intrinsic factor concentrate in pernicious anæmia is expressed in U.S.P. units (oral). Monographs dealing with the preparation in capsules and tablets are included.

PURIFIED WATER is described water obtained by distillation or by adsorptive processing to remove ionised substances. It may be used wherever distilled water is called for in the pharmacopeia, but it may not be used in preparing water for injection. It must be labelled to indicate whether it was prepared by distillation or by demineralisation. Changes have been made in the monographs on digoxin injection, and on vitamin-B₁₂ activity assay, the latter being an alteration of the change previously made in the third supplement.

N.H.S. STATISTICS

In St. Helens during 1953-54 the total cost of the National Health Service was £296,743. The number of prescriptions dispensed was 638,538 compared with 659,265 in 1952-3.

In SHETLAND during 1953-54 the total cost of the National Health Service was £65,012.

In DERBY during October 1953 the average total cost per prescription was 47.01d. During November it was 47.93d.

NEW COMPANIES

P.C .- Private Company; R.O .- Registered Office

FRENCH PERFUMERY CO., LTD. (P.C.).—Capital £10,000. Directors: John R. B. Maitland and Norman E. Maitland. R.O.: 135 Sloane Street, London, S.W.1.

C. B. BELLAMY & CO., LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. Director: Charles B. Bellamy, M.P.S. R.O.: 81 Dale Street, Liverpool.

D. H. MORGAN, LTD. (P.C.).—Capital £2,000. To carry on the business of retail dispensing chemists and druggists, opticians, etc. Directors: Maeve Keating, D. H. Morgan. R.O.: 38 Cheriton High Street, Folkestone.

J. P. BATE (BRACKNELL), LTD. (P.C.).—Capital £1,000. To carry on the business of dispensing chemists, druggists, etc. Directors: Dorothy I. Bate and Joseph P. Bate, M.P.S. R.O.: Peek House, 20 Eastcheap, London, E.C.3.

COTTON (SEAFORD), LTD. (P.C.).
—Capital £5,000. To carry on the business of wholesale or retail chemists, etc. Directors: James A. F. Murray, Eileen M. M. Murray and Charles R. Cotton, M.P.S. R.O.: 44 Broad Street, Seaford, Sussex.

A. J. CHUTER, LTD. (P.C.).—Capital £4,000. To acquire the business of a chemist and optician carried on by Arthur J. Chuter, at 270 Park Lane, Chippenham, Wilts, Directors: Arthur J. Chuter, M.P.S., and Dorothy M. Chuter.

JOHN B. SMITH (CHEMISTS), LTD. (P.C.). — Capital £4,000. To acquire the business of a chemist carried on by John E. Smith, M.P.S., at 570 London Road, Isleworth, Middlesex. Directors: John B. Smith and Emilie J. V. Smith.

KINGSWOOD (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, manufacturers of and dealers in chemicals, drugs, etc. Directors: Charles V. McManus and Donald M. Betts. Solicitors: Wilberforce Jackson & Co., Croydon.

E. PARKIN (CHEMIST), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist carried on by Ernest Parkin, M.P.S., at 26 King Street, Hoyland, Yorks. Directors: Ernest Parkin and Mary Parkin. Solicitors: Dibb & Clegg, Barnsley, Yorks.

ANTHONY (HORNSEY), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: Michael I. Anthony, F.P.S., and Cyril C. Cullinane, M.P.S. R.O.: 28 Veryan Court, Park Road, Hornsey, London, N.8.

BUCKLEYS (CHEMISTS), LTD. (P.C.).—Capital £8,000. To acquire the business carried on by Herbert Cobbold, M.P.S., 338 Ashton Road, Oldham, Directors: Samuel Holt, M.P.S., G. W. Jackson, M.P.S., and P. Buckley, M.P.S. R.O.: 338 Ashton Road, Oldham.

GEDDES LABORATORIES, LTD. (P.C.).—Capital £1,000, To acquire the business of a manufacturer of pharma-

ceutical substances carried on by John Geddes, M.P.S., at 380 Norwood Road, West Norwood, London, S.E.27. Directors: John Geddes and Doris E. Geddes.

LABWAYS, LTD. (P.C.). — Registered in Edinburgh. Capital £10,000. To carry on the business of analytical and research chemists, etc. Subscribers: Kenneth R. Grimston, 15 Hill Street, Edinburgh, and John K. Finlayson. First directors are to be appointed by the subscribers.

SOTHYS (BIOLOGICS), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in beauty and toilet preparations, laboratory reagents, chemicals, etc. Director: J. Bower, 35A Beethoven Street, London, W.10, R.O.: 35 New Broad Street, London, E.C.2.

STUART STANLEY & CO. (SAL-FORD), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of medicated dressings, etc. Directors: J. S. Robinson, and S. R. Forster. R.O.: 395 Corn Exchange Buildings, 27 Fennel Street, Manchester, 4.

ACKERS (CHEMISTS), LTD. (P.C.).—Capital £100. To carry on the business of pharmaceutical chemists, photographic and surgical goods dealers, etc. Directors: S. Ackers (chairman) and Lilian L. Ackers, 137A Milton Road, Swanscombe, Kent. Secretary: J. Carley. R.O.: 137A Milton Road, Swanscombe, Kent.

NEWCASTLE CREPE & TOILET PAPER MILLS, LTD. (P.C.).—Capital £60,000. To acquire that part of the undertaking of British Coated Board and Paper Mills, Ltd., carried on as Fancy Crepe and Toilet Paper Mills, and to carry on the business of fancy crepe and toilet paper makers, etc. The first directors are to be appointed. Solicitors: J. D. Langton & Passmore, 8 Bolton Street, London, W.1.

Company News Previous year's figures in parentheses

STEPHEN SMITH & CO., LTD.—Recommended dividend on ordinary shares for year ended April 30 is 12½ per cent. (same). Trading profit, £42,563 (£43,546); tax provision, £10,634 (£16,701); net profit, £22,895 (£20,939), after crediting £2,000 war damage reserve no longer required.

LEGAL REPORT

Supplies Without Prescriptions

"Excessive zeal" in efforts to assist customers was put forward as an explanation when J. M. J. Minton, Ltd., chemists, 5 High Road, Wood Green, London, N.22, were summoned at Wood Green magistrates' court on August 6 for selling by retail poisons included in the Fourth Schedule of the Poisons Rules, 1952, otherwise than in accordance with prescriptions given by people qualified to pre-scribe. The company originally company originally appeared on eighteen summonses, but when defending solicitor entered a plea of guilty to six of them, the Pharmaceutical Society's solicitor the remaining twelve. The evidence was that, on May 25, an inspector visited the company's premises and asked the managing director (Mr. Minton) to produce his books. Mr. Minton produced two prescription books. One recorded the prescriptions dispensed other than National Health Service prescriptions, and in the other dispensed medicines were entered. In the second book the inspector found a number of records of poisons that had been supplied or dispensed but for which no prescriptions could be No satisfactory explanaproduced. tion was put forward. There was no question of an excessive profit being made out of these transactions, nor were any Dangerous Drugs concerned. There was provision under the Poisons Rules for occasions when a doctor wanted something urgently: it could be supplied to him and he could send the prescription along later. That was what happened in one of the summonses before the Court, and the doctor had not forwarded the prescription. In another case a customer whom Mr. Minton had known for ten years had had a preparation prescribed for him re-peatedly by a doctor, but on one occasion the customer had not obtained a prescription, and to save him going to the doctor to get one, Mr. going to the doctor to get one, Mr. Minton let him have the preparation. The other cases were similar. The bench accepted a submission that there was little profit made out of the transactions. The company was fined £5 on each of the six summonses and ordered to pay a total of £8 8s. costs.



NEW SCOTTISH BRANCH: To resolve difficulties of delivering from their headquarters to certain areas in Scotland, Parke, Davis & Co., Ltd., opened at Carlin, Lanarks, on August 16, a new branch from which will be serviced the whole of Scotland (see also opposite page).

BUSINESS CHANGES

M. FULDER & CO., LTD., are removing to 5 Whittington Avenue, London, E.C.3 (telephone: Mincing Lane 9511), on August 19.

PARKE, DAVIS & CO., LTD., have opened a Scottish branch at Carfin Industrial Estate, Carfin, Lanarks. Telephone: Holytown 326. — Mr. R. Renwick, M.P.S., has been appointed manager of the branch, and Mr. Murray W. Paterson, F.P.S., sales manager.

THE Devonshire House, London, offices of British Industrial Solvents and other divisions of The Distillers Co., Ltd., concentrated at that address have now been connected with the International Telex system and allotted the number 8739, call sign BISOLV.

Appointments

A. BOAKE, ROBERTS & CO., LTD., Carpenters Road, Stratford,



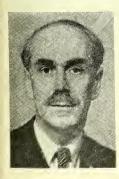
London, E.15, have appointed Mr. J. D. Campbell their represent the north of England. Mr. Campbell is to represent the company's aromatics division which includes perfumery and pharmaceuticals.

PERSONALITIES

MR. J. BRITTON, M.P.S. (superintendent chemist, Nottingham Co-operative Chemists, Ltd.) has won the singles final. Nottingham area, in the national Co-operative tennis championship contest.

MR. MATTHEW HUNT, who recently retired after fifty-six years' service with S. Maw, Son & Sons, Ltd., New Barnet, joined the company in 1898 as an office boy at the age of thirteen. In 1905 he was promoted to the export office, and after the 1914-18 war he became export manager under Mr. Arthur Trentham Maw. He retained that post until a few years ago, and was known to buyers all over the world. On his retirement he was presented with a standard lamp and cheque by the staff of the company.

MR. R. RENWICK, M.P.S., who has been appointed manager of the newly - estab-



newly - established Scottish branch of Parke, Davis & Co., Ltd. (see above), served his apprenticeship in Scotland and qualified as a chemist from the Royal Dispensary, Edinburgh (now in the Heriot-Watt College) in 1927. After about three years' experience with Squire & Sons, Ltd., Oxford Street, London, W.1, he joined Messrs. Parke, Davis & Co. as a representative in the North of England. He was appointed field manager for that area in 1947 and continued in that post until his appointment as assistant home sales manager in January 1950. MR MURRAY W. PATERSON, F.P.S., who has been promoted sales



manager f o r t h e Scottish branch (column one), served his a p p r e n ticeship with the late Martin Meldrum, Ph.C., A y r , studied at the S c h o o l of P h a r m a c y , Royal Technical College, Glasgow, and after passing the Pharmaceu-

tical Chemist Qualifying examination in 1929 joined Parke, Davis & Co., Ltd., as one of their representatives in the London area. In 1933 he took over the Lancashire territory, and in 1937 became representative for Glasgow and S.W. Scotland. His appointment as field manager for Scotland followed in 1949 and a year later his territory also included Northern Ireland.

MARRIAGES

HAYBALL—McCALLUM.—At St. Columba's Presbyterian Church of England, Grimsby, Lincolnshire, on August 5, John Newton Hayball, M.P.S., 265 Cleethorpe Road, Grimsby, to Catherine McCallum, M.A. Mr. Hayball is the only son of the late Mr. Edward T. Hayball, who qualified as a chemist and druggist in 1911.

Golden Wedding

MOTE—DOWNS.—At St. Peter's Church, Brockley, London, S.E., on June 25, 1904, Charles Frederick Mote to Harriot Gorman Downs. Present address: 92 Kingshall Road, Beckenham, Kent. Mr. Mote represented S. Maw, Son & Sons, Ltd., for forty-eight years. He has two sons who are retail pharmacists, Messrs. L. C. Mote, M.P.S., Orpington, Kent, and S. G. Mote, M.P.S., Ashtead, Surrey.

DEATHS

ELLIOTT.—On July 25, Mr. John Elliott, 24 Sefton Avenue, Newcastle-on-Tyne, and formerly 182 Chillingham Road, Heaton, Newcastle-on-Tyne, 6, aged seventy-three. Mr. Elliott qualified as a chemist and druggist in 1902.

EWBANK.—Recently, Mr. John Ewbank, M.P.S., 259 Great Homer Street, Liverpool. Mr. Ewbank qualified in 1908.

HULL.—Recently, Mr. A. S. Hull (chief chemist, Innoxa (England), Ltd.). Mr. Hull had been with the company since 1931, and figured prominently in the original and all subsequent re-

searches on the firm's barrier creams and cosmetics.

PARKINSON.—On July 29, Mr. Sidney William Parkinson, M.P.S., 88 Harlaxton Drive, Lenton, Nottingham, aged sixty-six.

STURTON.—On July 29, Mr. David Allan Sturton, M.P.S., 40 Highworth Avenue, Cambridge, aged seventy-two.

WILSON.—On July 27, Mr. Richard Wilson, Hazelmere, Hylas Lane, Rhuddlan, Flintshire, aged ninety-two. Mr. Wilson qualified as a chemist and druggist in 1883 and passed the Pharmaceutical Chemist examination in 1886.

INOUESTS

Strychnine Accidentally Taken.-At a resumed inquest recently on Margaret Kearney, aged nineteen, an assistant who had been employed by Mr. Patrick Stack, M.P.S.I., Glin, Limerick, Eire, a verdict that death was due to poisoning by strychnine accidentally taken was returned. Deceased died on March 31 shortly after she had told her employer she believed she had taken strychnine. While Mr. Stack was taking her to Dr. Barrett, who lives about a mile outside the town, the car skidded, went through a fence and overturned in a field. He went for assistance and when he got back she was dead. It was not the duty of the deceased to weigh strychnine. Dr. Maurice Hickey, State pathologist, said there was in deceased's stomach a tablespoonful of strychnine, equivalent to many times the fatal dose. Death was caused by respiratory failure, due to the strychnine.

"Rare and Unexpected" Drug Action.—The Birkenhead coroner recently recorded a verdict of accidental death on Howell Griffiths, 477 Borough Road, Birkenhead, who had died in Birkenhead General Hospital from the "rare and unexpected" action of a drug while he was under an anæsthetic, Griffiths had been knocked down by a motor-cycle while on his way to work. He was taken to hospital with fractures of his right leg. Dr. R. L. Wynne, consultant anæsthetist at the hospital, said Griffiths had a spine and chest deformity which reduced the normal processes of respira-tion. Some time before an operation for manipulation and plastering of the fractured leg, Griffiths was given an injection and was anæsthetised by gas and oxygen. That did not produce anæsthesia deep enough for the manipulation, and as he had a tendency to cyanosis, Griffiths' lungs were inflated with oxygen and he was given tubarine to relax the muscles. "That is a commonly accepted procedure which I have used in hundreds of cases," said Dr. Wynne. After the operation, normal spontaneous respiration did not appear, and in the twenty hours that followed until Griffiths' death, artificial respiration was maintained. Dr. Wynne said that he had asked a consultant physician to examine Griffiths. He was of the same opinion as myself that the condition was due to a drug idiosyncrasy." Griffiths had had two or three drugs.

MACHINERY AND PLANT

Bottle Cleaning by Machine. — In their Apex bottle-cleaning machine, R. Powley & Sons, Ltd., St. Mark's Road, Sunderland, offer a means of presenting all types of bottles clean and sparkling. Only one operator is required and widely varying quantities can be economically dealt with.

Corrosion-resisting Piping.—For the handling of liquid chemicals the use of Marleythene lightweight thermoplastic tubing, manufactured by the Marley Tile Co., Ltd., London Road, Riverhead, nr. Sevenoaks, Kent, offers advantages. The tube resists corrosion and erosion by soil and water, and is unaffected by acids or alkalis.

Rigid Frames at Will. — For constructing storage racks, work benches, stands for machines, frames for labo-



ratory apparatus and other structures demanding strength with rigidity, probably no other material is so versatile as Dexion slotted angle iron. It enables unskilled people to put up or dismantle frames for any temporary or permanent purpose, demands but small space for storage until used, and is easily cut with a hack-saw or, as in the illustration, with a cutter produced by the makers. Standard Dexion angle is made in aluminium alioy or steel, each 3 x 1½ in., and supplied in 10-ft. lengths in packets of 100 ft. with 75 plated nuts and bolts. The steel angle is rustproofed and stove-enamelled and strong enough to take a load of 1,675 lb. on a single unbraced 5-ft. strut. Dexion 225 is smaller (2¼ x 1½ in.). The manufacturers are Dexion, Ltd., 189 Regent Street, London, W.1.

Heating Panel for Drying Powders.—A new heating panel with automatically controlled surface temperature has been introduced by the General Electric Co., Ltd., for the continuous drying of thin layers of powders and granules. The panel face to which the material is exposed is made of glass fibre fabric heated from behind by nickel-chromium coil elements to temperatures up to 300°C. The temperature is automatically controlled by means of an indicating controller with thermocouples fixed to the panel face. Panels are made up with mild steel sections and have good thermal insulation at the back. An angle frame-

work is provided to allow suspension of panels above the material to be heated. The panel surface is finished with flat expanded metal. The panels can be used as a radiant heating source, but in order to increase the rate of heat transfer to a material a centrifugal fan is provided, and air ducting fitted in the back. A special form of diffuser is used to distribute the air flow evenly at the panel surface. The panels are made in sizes ranging from 2 x 3 ft. to 4 x 8 ft.

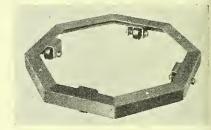
Pyrogen-free Water. — While it is impossible to give a maker's guarantee that any form of still produces a pyrogen-free distillate since so many factors are involved, Manesty Machines, Ltd., Speke, Liverpool, 19, claim that many of their Manesty stills are used for that purpose. The new Manesty stills have an efficient baffle system incorporated (in stainless steel for the large stills and toughened glass and stainless steel for the small stills) to prevent the entrainment of raw water. They are also designed to liberate the various gases dissolved in the raw water before they enter the boiling chamber. In effect, the evaporated water makes contact with toughened glass or stainless steel (according to the type of still being used) only during the process of circulation and condensation.

Pilot-size Centrifuge. — Sharples Centrifuges, Ltd., Tower House,

Woodchester, Stroud, Glos, have produced a pilotplant Super D-Canter for test work on as little as 5 gallons of slurry. The company's model P-14 Super D-Canter is well known in industry for the recovery of solids from slurries, and for the classification of solid particles according to particle size. It operates at a feed rate of 300 to 2,500 gallons per hour, ac-

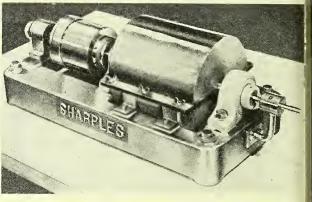
cording to purpose, and has been used for dewatering starch, recovering sodium chloride, benzine hexachloride and other crystalline materials, and many other processes, and in general to separate particles of greater than 5 microns in size, discharging solid and liquid product continuously. In applying the machine to new applications it had disadvantages resulting from a combined settling and "scrolling" action in the centrifuge bowl. Tests using quantities up to 1,000 gallons of feed were expensive or perhaps impossible on account of the small quantities of materials available. The new model overcomes those drawbacks. It has an average feed capacity of 1 g.p.m. and a maximum feed rate of up to 2½ g.p.m. For companies whose operations are not large enough to justify the machine, the services of the company's testing laboratories are available.

Bogie Truck. — For moving cases, crates, drums, etc., Powell & Co., Burry Port, Carmarthens, South Wales, have produced an octagonal



bogie truck with four ball-bearing wheels. It weighs only 11 lb. yet carries loads up to 700 lb. The wheels are on two planes, and on the two centre wheels the truck rotates freely. The height is only $2\frac{1}{2}$ in. and the truck may, if desired, be screwed to the bottom of a bin, chest or box.

Heating High Buildings.—In buildings 20 ft. high and over the cost of space heating is often prohibitive owing to air movement, and loss of heat by roof cooling before walls and floor are heated. Radiant heaters, such as the Harris (Schwank patent), manufactured by Harris Engineering Co., Ltd., York Works, Browning Street, London, S.E.17, then show maximum economy. They use low-pressure gas and a plate of low conductivity.



"Revolutionary" Filter Medium.—Made by British Filters, Ltd., Maidenhead, in association with Pritchett & Gold and E.P.S. Co., Ltd., Porvic filter medium (pure, unplasticised polyvinyl chloride) is rendered porous by a process covered by world patents. The advantages claimed for it, making it "a practical approximation to the ideal," are a completely uniform pore size, guaranteeing a 100 per cent. retention of all solid particles above a pre-determined size (the two standard grades at present available stop particles greater than two and five microns respectively). The material allows phenomenal flow rates and does not weaken when wet.

Tube-filling.—A tube-filling machine illustrated in our June 19 issue was the model Kalex-Dupuy R.V.7, and not as stated. The machine is distributed in Britain by Flexile Metal Co., Ltd., 796 Holloway Road, London, N.19.

Press-coated Tablet Machines.—An agreement for the exchange of technical "know-how" has been concluded between Evans Medical Supplies, Ltd., Speke, Liverpool, 19, and Kilian & Co., G.m.b.H., Cologne, Germany, under which the German company is licensed to produce machines embodying methods and devices developed by Messrs. Evans for the production of Prescoted tablets. Kilian & Co. expect to announce in the near future the availability of machines embodying the new devices.

Clean-working Gyratory Machines.— Nearly all mechanical devices require lubricating when in operation, and the viscous nature of the oils employed traps dirt in parts that are difficult to clean. Most oils and greases are breeding grounds for infective organisms. In the design of pharmaceutical machinery those special problems have to be overcome. The sieving, straining, tablet-counting and grading units manufactured by Russell Construc-tions, Ltd., London, W.C.2, are examples of pharmaceutical machinery in which those obstacles have been surmounted. All are motivated by gyratory vibration. In each the gyratory generator is housed in an air-tight castiron housing, and external bearings. levers and cams have been eliminated. In addition, the machines are virtually silent in operation and finished in high-gloss enamel and chromium. The stand model sieving and straining machine operates effectively even with the finest-meshed screens. All parts of the machine in contact with the processed material are made of stainless steel and detachable from the unit for cleaning and exchange purposes in a matter of seconds. The sieving element can be dismantled without using tools, and remeshing a sieve is done in less than five minutes. The unit, mounted on trolley wheels, is com-pletely mobile. The Russell variable-

speed machine is constructed to deal with much larger outputs. The unit incorporates an infinitely variable torque convertor, enabling the operator to select the cycle speed that yields the best results. In the Cascade sieving machine oversize material is continually rejected from the machine. The material is impelled forward along a spiral course, passing successively over three screens. The effective mesh area amounts to $6\frac{1}{2}$ sq. ft. and the whole assembly is housed in a dust-tight container.

Checking Press-coated Tablets.—Devices now fitted to the Manesty Dry Cota tablet-making and compression coating machine allow sampling of the core and checking that each tablet has a centre. Transparent plastic guards are fitted to both turrets, which enable the action of the punches to be seen and also are a means of knowing that adequate lubrication has been effected.

NEW PRODUCTS AND PACKS

Antibiotic Ear-drops. — Sharp & Dohme, Ltd., Hoddesdon, Herts, have introduced Tyotocin, an antibiotic, fungicidal and analgesic preparation for the treatment of ear infections. Tyotocin contains tyrothricin, 0.05; benzocaine, 1.25; antipyrin, 5; hexylresorcinol, 0.1; propylene glycol, 50; alcohol, 0.5; and glycerin to 100 per cent. It is issued in 15-mil bottles with dropper assembly. Tyotocin comes within Part ! of the Pharmacy and Poisons Act, 1933.

Anti-cockroach Lacquer. — A new lacquer based on urea-formaldehyde resin and containing the insecticides aldrin and dieldrin is being used to protect ships from insects, especially cockroaches. The lacquer has the unique property of expelling the insecticides in tiny invisible crystals, an action quickened by the friction of insects crawling on the surface. The process continues despite washing and scrubbing, enabling the toxic strength of the product to be maintained for at least two years after each application. Both the insecticides aldrin and dieldrin are manufactured by Shell Petro-



SPRAYING AGAINST COCKROACHES:
Operators of Deodor-X Hygiene Service, Ltd.,
32 New Broad Street, London, E.C.2, spraying
the troopship S.S. "Dunera" with insecticidal
lacquer containing aldrin and dieldrin.

leum Co., Ltd., 99 Regent Street, London, W.1.

Change of Presentation. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, are now presenting Allen-



burys sugarless pastilles in the new 2-oz. tin illustrated; it contains an assortment of fruit-flavoured, brightfinish pastilles. The 4-oz. tin of lemon or fruit-flavour pastilles has been discontinued.

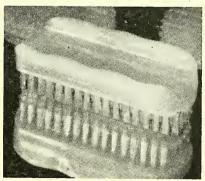
A Speciality Against Hypertension.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, are introducing to doctors a new speciality Pertenal, which is a combination, in tablet form, of Veratrum viride, mannityl hexanitrate, phenobarbitone, and homatropine methylbromide for the treatment of essential hypertension.

Rauwiloid Plus Hexamethonium.— Riker Laboratories, Ltd., Morley Street, Loughborough, Leics, are marketing Rauwiloid plus hexamethonium, a combination of Rauwiloid brand alkaloid hydrochlorides of Rauwolfia serpentina and hexamethonium chloride dihydrate. The product is intended for the treatment of severe, intractable hypertension. Each tablet contains 1 mgm. of Rauwiloid and 250 mgm. of hexamethonium chloride dihydrate.

Mobile Surgical Lamp. — P. W. Allen & Co., 253 Liverpool Road, London, N.1, have produced a mobile surgical lamp specially designed for use in hospitals, clinics, works surgeries, and nursing homes where a mobile high intensity shadowless light is required for observation or minor operative

work. The lamp, consisting of four 24-in. fluorescent tubes between moulded Perspex reflection and diffusing panels, provides a light of high intensity yet of low surface brightness and adequately diffused for complete comfort of operator and assistants. It is adjustable for height, tilt and swivel over a wide range, and is shadow-free. A foot-operated main switch is provided. The base, though large enough to provide stability with the lamp in extreme positions, passes through a 24-in. opening.

Improved Braxy-blackleg Vaccine.—
Burroughs Wellcome & Co., 183
Euston Road, London, N.W.1, announce the introduction of Wellcome brand improved braxy-blackleg vaccine for the prevention of Cl. septicum and Cl. chauvoei infections of sheep and cattle. The new vaccine gives a higher level of efficiency than the previously issued formolised whole-culture vaccine. The dose is only 2 c.c. for sheep and 5 c.c. for cattle, against the 5 c.c. for sheep and 10 c.c. for cattle with the older product.



A NAILBRUSH FOR HOSPITALS: Designed primarily for use in hospitals and nursing homes, the Halex nailbrush illustrated (natural colonr only) is made entirely of nylon. As the tufts of nylon filament are held in a solid nylon back, the brush is safely sterilised by boiling, and the centre of the filling is reinforced. The makers are the Halex division of the British Xylonite Co., Ltd., Highams Park, London, E.4.

TRADE NOTES

For Pullorum Disease Too .- Furazolidone, which was introduced be-cause of its supremacy as a treatment for fowl typhoid, is now found to be of value in pullorum disease (B.W.D.). A. J. White, Ltd., 120 Coldharbour Lane, London, S.E.5, supply the com-pound (as Neftin N.F.180) in 4-oz. and 1-lb, cartons.

Bulk Packs Withdrawn. — Milton Antiseptic, Ltd., 345 Gray's Inn Road, London, W.C.1, on August 9 withdrew from distribution to retailers all bulk packs of Milton except the 80-oz. winchester. Milton in 1-gall. and 5-gall. packs continues to be available to hospitals, nursing homes, doctors and other such professional users.

Badges and Medals.—John Pinches (Medallists), Ltd., 21 Albert Embank-ment, London, S.E.11, are specialists in making badges in metal and vitreous enamel for conferences and exhibitions. They also make gold and silver medals. A handsomely produced bro-chure, "Medallic Craftsmanship" illustrates many examples of their work.

Seasonal Supplies Ready. — Southon Laboratories, Ltd., 84 Upper Richmond Road, London, S.W.15, announce that supplies of Esobactulin capsules are now available for the coming season. A bonus of thirteen to the doz, is again available, in addition to the usual $33\frac{1}{3}$ per cent. trade discount. Show material and shelf-cards for display purposes are sent on request.

Starting Right. — A handsomely printed 2-colour folder "Selling Starts with the Trade" has been issued by J. K. Clayton Advertising Agency,

Ltd., Royal Central Chambers, Windmill Street, Manchester, 2, who give the very sound advice to advertisers that, before spending large sums of money on advertising to the consumer, they should first secure the retailer's good-will and get him to stock the goods.

Division of Agencies.—On July 12 the sole agencies for the Paris per-fumes of Weil, d'Orsay, Nina Ricci and Robert Piguet were transferred to the newly-formed French Perfumery Co., Ltd., 135 Sloane Street, London, S.W.1 (see p. 156). Crescent Preparations Co., Ltd., 69 Ebury Street, London, S.W.1, are retaining the sole agency for the Paris products Agnel hand cream and Friction Foucaud, and continuing to manufacture Crescent eyelash grower and Cresto nail revitaliser.

Goods Transport Guide. — Names, addresses and telephone numbers of operators of long-distance road-transport services are given in the July-December ABC Goods Transport December ABC Goods Transport Guide, recently published by Motor Transport (Associated Iliffe Press). The edition also contains names of hauliers who, not operating regular time-table Other sections of the *Guide* give details of "smalls" or parcels services; names, addresses and telephone numbers of clearing houses; machinery carriers; bulk liquid carriers; British Road Services and railway offices; warehouse keepers; London public wharfingers; and air charter companies. Price 3s. 6d., including postage, the work may be obtained from all newsagents, or direct from Iliffe & Sons, Ltd., Dorset House, Stamford Street, London, S.E.1.

Exhibitions

Industrial Chemistry. — The 27th International Congress of Industrial Chemistry is being held in Brussels, Belgium, September 11-19. The Congress will include twenty-nine sections grouped under the main head-General problems; fuels; ings: nuclear science; metallurgy; industrial inorganic chemistry; cements, building materials, glassware, ceramics and enamels; industrial organic chemistry; foodstuffs and agricultural industries; colonial problems; and organisation; industrial, commercial and professional. Full particulars of the Congress may be obtained either from the Secrétariat du Comité d'Organisation, XXVIIème Congrès International de Chimie Industrielle, 32 Rue Joseph II, Brussels, or from the Commission permanente d'Organisation des Congrès de Chimie Industrielle, 28 Rue Saint Dominique, Paris, 7c.

Christmas Goods Displays

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have made arrangements for temporary showrooms as follows:-

BELFAST: Royal Avenue Hotel, August 14 to August 22. BIRMINGHAM: Imperial Hotel, September

13 to September 18.

CARLISLE: County Hotel, October 4 to October 10.

GLASGOW: George Hotel, September 13 to September 18 HANLEY: Grand Hotel, September 20 to

September 26.

Newcastle: Royal Turks Head Hotel, September 27 to October 2.

The displays will be open daily from

9 a.m. to 9.30 p.m.

BOURJOIS, LTD., Queensway, Croydon, have arranged a series of trade

displays of Christmas goods follows:-

ABERDEEN: Caledonian Hotel, August 30 to September 3. BELFAST: Royal Avenue Hotel, August 30 to September 10.

BIRMINGHAM: Grand Hotel, September 20

to September 24.
BRIGHTON: Metropole Hotel, September 27 to September 30.
BRISTOL: Royal Hotel, August 30 to September 30.

tember 3.

Royal Hotel, September 13 to

CARDIFF. Noval Trotel, September 13 to September 17.

EDINBURGH: North British Hotel, September 13 to September 17.

GLASGOW: St. Enoch Hotel, August 16 to August 27.

GRIMSBY: Yarborough Hotel, September 7 to September 9

7 to September 9.

HULL: Royal Station Hotel, August 23 to August 27.

LEEDS: Great Northern Hotel, August 30

to September 10. LIVERPOOL: Adelphi Hotel, August 30 to

September 3.

MANCHESTER: Queens Hotel, September 6 to September 10.

Corporation Hotel,

MIDDLESBROUGH: Corporation
September 20 to September 24.

NEWCASTLE: Royal Turks Head
September 6 to September 10.

NORWICH: Bell Hotel, October 4 to
October 8.

County Hotel, September NOTTINGHAM: 20 to September 24.

PHOTOGRAPHIC NOTES

Developing 120 Films an Hour. For photo finishers, the new fully automatic Automata film processing conveyor machine now being used and demonstrated at the works of North



Staffs Photographic Services, Ball's Yard, Newcastle, Staffs, offers an output of 120 films per hour. The film is untouched by hand from time of feeding dry into the machine and comes out sixty-three minutes later, dry again at the other end. Development time can be varied to customer's specification and there is a built-in thermostat in the developing part of the machine accurate to plus or minus half a degree, switching on either a heater or a cooling mechanism. There is constant filtering of the developing solution and the drying air is thermostatically controlled. The machine is a self-contained unit and all tanks, clips, safety cages, heaters, etc., at present in use become redundant. The machine develops the films horizontally and therefore overcomes problems such as films dropping to the bottom.

A Rapid Fixer and a Hardener.-A new product of Johnsons of Hendon, Ltd., Hendon Way, Hendon, London, N.W.4, Ultrafix concentrated rapid fixing solution, contains ammonium thiosulphate and is suitable for plates, films and printing paper. Directions for use are printed on the bottle label with further notes on the back of the (removable) label. The economy of this type of fixer is well known. For example, one pint of working-strength Ultrafix, with the recommended addition of Ultrafix hardener, can be expected to fix and harden 100 quarterplates, twenty size-120 films, or thirtyfive whole-plate prints. For the amateur who has only a limited time at his disposal, Ultrafix is particularly useful because, when he uses it, all but the last print can be washing and ready to dry by the time he has finished an evening's enlarging. Ultrafix rapid fixing solution is issued in a 570-c.c. (20-oz.) bottle. One 115-c.c. bottle of hardener is sufficient to treat two 570-c.c. bottles of rapid fixer.

IRISH DRUG ASSOCIATION

LEAKAGES of chemists' lines to other traders and the Irish Health Act were the main subjects of discussion at the annual meeting of the Irish Drug Association held in Dublin on July 26.

Giving his report, THE PRESIDENT (Mr. T. R. Bourke) said that 1953 had been a successful year for the Association and that the committee welcomed the present election and the active interest taken by members. Relations with the trades unions catering for pharmacy employees had been good, and several minor disputes settled. A demand early in the year for increased wages had resulted in an award of 6s. a week for all employees. There had been numerous complaints of leakages of confined lines. All had been taken up. The president reminded members that the Association had worked hard on the Health Act for years. It had been the Association's policy to provide a report with the price changes, but the multiplicity of those changes during recent years had precluded that. New local branches had been formed in the South Midlands and in the Clonmel district, and local association meetings in Ballina, Limerick, Birr, Clonmel and Cork had been attended by the officers of the Association.

Mr. P. A. Brady moved the adoption of the president's report, and said that a highly organised body like the Association should be able to impress on wholesalers and manufacturers that it was in their interest to see that chemists' lines were kept to chemists. There would always be leakages, but, thanks to the I.D.A., the position had been more or less rectified. Chemists need not fear any "fair trade commission" because they were working for only a living wage. In order to get outlets for the younger qualified people they should emphasise that all vacancies in wholesale or manufacturing firms should go to Irish-trained pharmacists. The president's report was adopted.

Treasurer's Report

MR. T. C. Scott (treasurer) said that in 1952 there had been a deficit of £535; but in 1953 the deficit was £55. Price changes circulated to the 1954 price list had numbered 2,841. A new drugs and chemicals list was being distributed before the end of 1954. He was certain that next year's account would show a surplus. Income over the year had totalled £5,418, including subscriptions, £4,252, and advertisements, £1,026. The heaviest items in an expenditure of £5,474 were office salaries and wages, £2,004; printing and stationery, £1,275; and travelling expenses of committee and sccretary, £980. Investments stood at £1,888, and office equipment and furniture at £701.

Dr. McKenna said it was unsatisfactory that the accounts had not been circulated in advance, and MR. J. BURKE proposed that the accounts should be circulated a fortnight before the annual meeting. MR. SCOTT replied that he was sure that that could be done. The report was adopted.

MR. R. C. O'HIGGINS said that the

method of proxy in elections to the

committee should be eliminated.

MR. O'NEILL said that he thought the Association's method of election was out-moded, and he would press Mr. O'Higgins's view in committee.

Establishing a Principle MR. P. F. McGrath (pharmaceutical representative on the National Health Council) said that the Pharmaceutical Society and the I.D.A. had been criticised for not taking their members into their confidence before now, but it was only that night that they were able to put anything concrete before them. Under the maternity provisions of the 1953 Act, medicines were to be supplied free to the lower and middle income groups, and anybody else who paid a nominal yearly sum. That was where they had fought to come in, and where had they insisted, when they had seen the previous Minister for Health that, where medicines were to be supplied outside the dispensaries, nobody but the chemist had the right to supply. When the Minister brought out his memorandum later, in which a fee was offered to the doctors to supply medicines, the Association had objected strongly, and the Minister agreed that, if a scheme could be worked out, medicines should come through the chemist. A scheme was worked out by the joint committee of the Society and the I.D.A. on which an interview had been obtained with Department of Health officials. After the general elec-tion the 1954 Health Act had been introduced. When the new Minister for Health had seen the joint committee recently he stated that, for the present, only the lower income group would come under the maternity scheme from August 1. Where a maternity patient decided to have her own doctor instead of the dispensary doctor, the Minister agreed that she should obtain her medicine through the chemist, provided a scheme acceptable to the Department was put up. The number of patients to whom that would apply might not be a thousand in a whole year, but it established the principle that the chemists were the suppliers of medicine. The joint committee had started work on a scheme like that in operation in Britain and Northern Ireland, but were told by Department officials that it was a waste of time, as the Minister had to go not only to the Government but to each local health authority. Eventually a scheme was produced and details were supplied to the Department for the Minister's acceptance. The committee were bargaining now for the supply of medicines to a class that chemists had not supplied before, and when submitting their scheme, they when submitting their scheme they asked for a guarantee that what was agreed to in that particular case would not hold for any other group. Under the scheme submitted chemists would get a proportion of the patients who previously had gone to the dispensaries. The vital thing for pharmacy was to get into a State health scheme.
MR. G. W. IRWIN, Blackrock, said

that the members should thank Mr. McGrath for his exposition of the matter, and go into the scheme that he

Replying to Mr. D. J. NUGENT, Mr. McGrath said that under the proposed scheme a lower-income group person who wanted her own doctor would get her medicine from the chemist for six months before and six weeks after the birth of her baby. If the woman went to the dispensary doctor she would get her medicine there.

MR. G. H. MILLER said that it would

be a defeatist attitude if the chemists did not insist upon a professional fee

in all cases.

MR. DAVID MURPHY said that the scheme outlined by Mr. McGrath business bring new the chemist's shop.

MR. R. J. SEMPLE urged that the chemists should press for a National

Formulary,

MR. McGrath said that a National Formulary had been thought of and the doctors were in favour. Under the Act the local authorities would have to keep a register of people in the lowerincome group, and that would help to cut out abuses.

DR. F. J. McKenna said that, taking the scheme at its face value, Mr. Mc-Grath was to be congratulated on what he had achieved. He would like to know if the people who were receiving medicines and treatment under schemes such as existed for the treatment of tuberculosis and venereal disease would continue to receive medicines irrespective of the group they belonged to.

MR. McGrath said that it was real-

ised that anybody could walk into a clinic at present and get baby foods, etc., but under the new conditions it was the chemists' business to see that, so far as the clinics were concerned, the law was carried out.

MR, DAVID MURPHY asked for confirmation that people at present treated free under T.B. and V.D. schemes were not affected by the 1953 or 1954 Health Acts, and Mr. McGrath agreed that

that was so.
MR. M. COSTELLO (president of the Pharmaceutical Society of Ireland) complimented Mr. McGrath for the fight he had put up on members' behalf.

MR. CREMEN mentioned that the scheme was open to revision by the chemists' representatives and the Department in six or twelve months' time.

Motions of Confidence

On a show of hands a motion expressing confidence in the deputation that had gone to the Minister, and approval of its proposals, was carried by a large majority.

Another motion expressing confidence in the joint committee of the Pharmaceutical Society and I.D.A. was agreed to, as was a motion calling on the I.D.A. to take action against those responsible for leakages of chemists' lines.

On the result of the voting the president announced that the following had been elected to seven vacancies on the committee: Messrs, P. F. McGrath (511), M. Costello (505), D. P. McHugh (496), Lyall G. Smith (494), D. J. O'Hanlon (490), F. J. Robinson (488), D. J. Bridgeman (481).

R/ Zinc & Castor Oil Cream

R/ Zinc & Castor Oil Cream

R/ Calamine Lotion

B.P.1953

Packed in 1 Jars.

& 4 oz. Fancy Bottle.

Packed in 4 oz. Fancy

Sample sent on request.

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Free from P.T.	List	3 doz.	6 doz.	12 doz.	24 doz.	60 doz	
I oz. Jars	6/-		5/9	5/6	5/3	5/-	
2 oz. Jars	9/-		8/9	8/6	8/3	8/-	
4 oz. Jars	14/3	-	13/9	13/3	12/9	12/3	
Calamine Lotio	n B. P.	1953.	Free fro	m P.T.			
4 oz. Bottles	8/-		7/6	7/3	7/-	6/9	
Cream of Calamine (Skuse) (Antiseptic)							
4 oz. Bottles	13/-	12/6	12/-	11/6			
P.T. chargeable	at 3/1	doz.					

B.P. 1953 Revised Formulas

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Packed in 4 oz. W.M. Bottle.

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Cheapness is Not All

Anybody who seeks to analyse the effects of abandoning collective price protection might do worse than study an article, "Selling by Price," in a recent issue of the Financial Times. There a correspondent describes, in accurate perspective and with apparent absence of bias, the causes and effects of a system of "discount houses" that has come into being in the United States of America. A discount house is what we should call a cut-price shop. It is a shop where the customer can obtain goods at a substantial percentage off the manufacturer's suggested retail price. Well over 6,000 such "discount houses" are said to exist today in the States with a turnover estimated at \$5,000 millions (say £1,750m.) a year. They have sprung up despite the existence of "fair trade" laws which ostensibly buttress trade schemes for maintaining uniform retail prices. Perhaps they would not have caught on if those laws had been actively enforced, but manufacturers have not troubled to take action: their turnover would have been smaller at the "protected" prices. "Are discount houses a good or bad innovation?" asks the Financial Times correspondent, and gives the answers: "The consumer who profits by them would give his unequivocal approval . . . but the retailer sees his livelihood threatened.'

In the drug trade in this country there is in operation a system of price maintenance by collective action, and the system is under threat of being outlawed by Government action. Whether the destruction of collective price maintenance, if it came about in Britain, would cause the establishment of "discount houses" is a hypothetical question there is no need to answer, for the effect would be the same in kind, if not in degree. The livelihood of the small retailer would be threatened, and if it be true—as its opponents say—that price maintenance tends to perpetuate inefficient distribution, and "free" competition means more efficiency, then many of them would go by the board.

In Britain the issues, as they concern chemists, are complicated by the fact that chemists depend on retailing for part of their income, and on professional work for the remainder. Neither in itself is enough. The professional side, every contractor knows, is subsidised by the sales side. Undermine the counter trade and you make it impossible to continue a pharmaceutical service that puts the medicine in the patients' hands so conveniently near the homes of the vast majority. Is it to the benefit of the consumer that cut-prices should close down many pharmacies and transfer the

trade in branded goods to shops that would give no service, allow no credit, and do without displays in order to reduce overheads? To answer "No" is not to seek to perpetuate inefficient retailing. It is rather to include as factors in efficiency the knowledge and ready advice, courtesy and personal service that the pharmacist puts at the disposal of his customers today.

Whoever else demands an end of price maintenance, the chemist should seek to preserve those good things in his relationship with the public, and should strive to maintain a system that is undoubtedly one of the foundation stones of that relationship.

Liability for an Agent's Fraud

A PERSON who is induced to enter into a contract by fraudulent representations by the other party to the contract is entitled to recover damages for any loss caused to him on that account. In some circumstances he may rescind the contract altogether.

Suppose the fraudulent misrepresentations have been made by the agent of one of the principals, what is the position of the other party to the contract? The fact that the agent may have perpetrated the fraud for his own personal benefit and not for that of his principal makes no difference. The principal, however innocent, is still responsible.

It is possible, too, to ratify the wrongful acts of another, and by such ratification to become treated as a principal and be rendered liable for wrongful acts. Fortunately there is no ratification unless the party ratifying was at the time of the ratification fully aware of all the circumstances, and unless the wrongdoer purported to have acted on his behalf at the time in question.

In an important decision recently given by the House of Lords, the case concerned certain articles the manufacture of which was required to be according to a certain formula prescribed by the Board of Trade, The manufacturing company's managing director, without the knowledge of his co-directors and shareholders, disregarded the formula and introduced other elements into the manufacture, thereby increasing the profits of the company. He negotiated on his own behalf with prospective purchasers with a view to the acquisition by the latter of the whole undertaking of the company. And he produced, among other things, the accounts of the company, showing the higher profits already referred to. From first to last, however, he concealed from those prospective purchasers, who did in fact buy the business, the facts about the method of manufacture he had employed.

After a provisional offer for the business had been made, a general meeting of the company was called. At that meeting the company passed a resolution authorising their managing director to proceed with the negotiations, and to take the matter up further with the prospective purchasers with a view to completing the transaction on the basis of his previous negotiations. Only after the completion of the transaction did the purchasers discover the fraud.

The House of Lords held that, up to the date of the company's resolution, the managing director was not acting on behalf of the company. He had at that date no authority from the company, which could therefore not be responsible for his fraudulent concealment of the facts. Nor could the company be regarded as having subsequently ratified the fraudulent representations made

up to the date of the resolution since it was entirely unaware of the relevant facts. In passing the resolution authorising completion of the negotiations, however, the company gave authority to their director to act on their behalf. By virtue of the authority conferred on him, he was then acting within the scope of his authority, and the company, however innocent, was responsible to the purchasers. Accordingly all the directors and members of the company were held liable as principals. Each had to bear a portion of the damages awarded to the purchasers.

Lipstick for Patients

It seems a little unnecessary for hospital authorities to sponsor the provision of facilities whereby female patients can obtain cosmetics in the ward. In the vicinity of most hospitals there are shops at which a patient's relatives on visiting days can buy and take in her requirements. There is not even the need to buy near the hospital—the purchase can be made from one's own home supplier. Even, however, if from long usage the practice is tolerated without protest, dealers cannot but take it hard when a manufacturer sets out to "work up a trade" in such hospital-ward supplies by actively encouraging the hospitals to buy in quantities at trade rates and to take into stock Christmas gift sets and novelties. That is especially reprehensible when the manufacturer's policy is one of limiting sales to those retail suppliers who have direct accounts. We cannot believe that chemists generally are aware that that sort of thing is going on, or manufacturers of how strongly chemists disapprove of practices of that kind, which make the hospital a direct competitor of the retail trader.

Onward from Galen

A CURRENT CAUSERIE

DECORATIONS at Mr. Claude Benton's pharmacy, at 9 London Street, Norwich, include a carved oak facia showing an alchemist at work, watched anxiously by his staff from behind half-closed doors. The motif is based on a seventeenth century painting. On the door handle is a statuette of the "hermaphrodite, world-creating spirit Mercurius, metallic yet liquid, cold yet fiery, poison yet healing." There are also fourteen glass engravings concerned mainly with symbols showing the relationships of the elements—the moon, the sun, and their essential unity, and their connection with alchemy. In how many other pharmacies have the alchemical associations of pharmacy been similarly perpetuated?

*

One of the most handsomely produced books of technical reference information we have seen is a 154-page quarto book, "Shell Chemical Solvents," a second edition of which was published recently by Shell Chemicals, Ltd. The board cover, mainly in white on red, but with the Shell trade mark in yellow on a vertical black band, has a laminated plastic "varnish" finish. Inside, after introductory pages outlining the development of an organic chemical industry based on natural mineral oils, and illustrating it most colourfully by diagrammatic pipelines superimposed, by means of a partly transparent, partly opaque plastic page, on a full-page illustration of a purification and distillation plant, there follow sections on ketones, alcohols and ethers, with specifications and properties. Sixty pages deal with the applications of solvents in surface coatings. The remainder of the book is taken up with tables, each appropriately presented and proving that even tabular matter can escape from monotony and become varied and attractive. The work was evidently costly to produce and not surprisingly all copies available have now been distributed. One may hope that other compilers of technical data may at least be able to borrow a copy from a friend who has one, so as to derive inspiration from what must surely be a model of its kind.



ONE of the improvements in biography in recent years is the compression to which scholars submit it. An example is the life of Thomas Young, M.D. (1773-1829) begun by the late Alexander Wood, and completed by Frank Oldham. After taking the M.D. at Cambridge in 1808, Young secured a post at St. George's Hospital, London, early in 1811. Though he never attained much popularity as a practising physician, he compensated for that by a steady growth of fame in the sphere he had chosen. Even before

obtaining his Cambridge degree, he came into contact with Benjamin Thompson, founder of the Royal Institution and well-known as Count Rumford. Young had no hesitation in suggesting the salary he considered appropriate, £300 per annum. By that time, he was building up an international reputation in France and elsewhere. We need not refer in detail to his theory of light, and its action on the eve; but it is of interest to note that his name is increasingly found on Government Committees. When, for instance, it became important to set up new standards for British weights and measures early in the nineteenth century, his name was there, side by side with those of Sir Humphry Davy, Professor Miller and a few others. Again, the number of articles contributed by him to the Encyclopædia Britannica before 1825 is encyclopædic in two senses of the word. Finally, a description of the Rosetta Stone has been praised by Sir. E. A. Wallis Budge as "practically the foundation of the science of Egyptology." The inscription on Young's memorial in Westminster Abbey was composed by Hudson Gurney.

THE South African dispensing label reproduced alongside has several features of interest. Substantially in the English tradition, it has much of the style and character of the

earliest lithographed labels (the best?) though the directions, which are printed on the label in facsimile handwriting, are a concession to the modern tempo of business, which allows little time for calligraphy. The name and address at the head of the label is less usual than at the foot. The phoenix seems a close relative of our own, though an ornithologist might, for all we know, find proofs that they could not be of the same species. Since the bird is, like Liverpool's liver

JAMES B.DORAN,
PHARMACEUTICAL CHEMIST.
The Border Pharmacy,
ALIWAL NORTH.

The Mouth Wash.

Os tea = spoonful un
half a tumblerful of
warn water as a
mouth wash, several
times a day.

bird, mythical, and not the subject of a British or International standard, artistic differences are almost bound to arise. Mr. Doran, who remembers well the pharmacy of Dr. John Evans, Dublin, whose prescription envelope was once illustrated in these pages (C. & D., June 6, 1953, p. 604) uses the phoenix as a trade mark on most of his labels.

POLAROID and its uses

By D. MAXWELL BRYCE

THE introduction of the three-dimensional film has made Polaroid familiar to all cinemagoers. Consisting of crystals of quinine iodosulphate embedded in a plastic matrix, it looks, owing to its greenish-grey tint, rather like half-exposed photographic film. Its properties readily differentiate it from that substance.

A Test with Filters

Seen through a single sheet of polaroid a source of light, such as an electric light bulb, looks just as one would expect to see it through a similar neutral-tinted glass or gelatin filter. But the light that reaches the eye is not ordinary light, as may readily be shown by interposing a second sheet of polaroid between the first one and the eye. Rotating the second sheet demonstrates that there are two positions in each complete turn in which the image of the light source is practically extinguished, and the field of view appears dark. In those circumstances the polaroids are said to be crossed. Similarly two positions are found in which the second sheet seems to be almost devoid of effect, and the image seen is of maximum brightness. In those positions the polaroids are similarly oriented and are said to be parallel. Intermediate positions show intermediate transmission of light. The angle through which the second polaroid has to be turned to pass from a crossed to the adjacent parallel position is 90°. The first polaroid has "plane-polarised" the light, and plane-polarised light can be transmitted by a second polaroid sheet only when the planes of polarisation of each are parallel.

There are other ways of polarising light besides using polaroid. Nichol prisms are frequently used in microscope work, and the light reflected at certain angles from polished non-metallic surfaces is also polarised. That is readily demonstrated by observing through polaroid (sun-glasses are ideal for the purpose) the reflected image of a readinglamp on the top of a polished wooden table. It will be found that in each complete revolution of the polaroid there are the same two positions noted above, where the light forming the image is largely cut off. For that reason polaroid spectacles are particularly effective in eliminating the glare from road surfaces. They also enable persons studying aquatic animals and plants to look straight into a body of water without being troubled by the surface reflections. The suggestion has been made that night driving could be rendered less trying and safer if the headlights of motor vehicles were fitted with polaroid filters and similar material were incorporated in the crossed position in the wind screen. Motorists would agree, but there may be another point of view (see C. & D., June 12, p. 603).

However, polaroid seems to have found its main use in the "3D" film industry. The essence of the problem of conveying the illusion of depth to a viewer is to present simultaneously the two different images that would be seen separately by the left and the right eyes in such a way that each of the viewer's eyes sees only or predominantly the appropriate image. The simplest way of achieving that, while avoiding the strain engendered by the green and red or anaglyph system, is to make use of polaroid, and that is the method which is at present being used in this country. Briefly, two projecting systems are used, one to project the film of right-eye images and the other to project the film of left-eye images, and into the projectors are inserted polaroid filters whose planes of polarisation are mutually at right angles. To create the illusion of depth it is then only necessary for the viewer to wear spectacles of polaroid with the "lenses" so oriented that each eye sees only the appropriate image. Any disappointment after a visit to the 3D cinema may be counterbalanced by the comforting thought that for sixpence has been supplied a pair of spectacles containing two pieces of polaroid whose market value is more than 5s.

When fitted into a microscope, two slips of polaroid will do nearly all the things that Nichol prisms will do. Nothing is easier than to convert an ordinary optical microscope into a polarising instrument: it is simply a matter of cutting a disc that fits into the filter carrier (or in some other way fitting a piece between the illuminant and the stage of the microscope to form the polariser) and a smaller disc that fits into the eyepiece (if that is of the usual Huyghenian type and can be freely rotated in the draw tube) just above the lower or just below the upper lens. The eyepiece polaroid must not be on the graticule carrier, which is necessarily in the focal plane. If the eyepiece cannot easily be rotated a small piece of polaroid may be cemented in position to cover a small vicwing hole cut in the centre of the bottom of a pillbox of suitable size. If that is done it is as well, since the plastic is readily scratched, to protect the underside of the filter with a round cover-slip, which is cemented into position. Some inconvenience is occasioned by this device, which is set on top of the eyepiece like a cap, unless an eyepiece of the telaugic variety used by people who wear spectacles is used. The rotatable second polaroid forms the analyscr.

Isotropic and Anisotropic Crystals

Every pharmacist will remember the "maltese crosses" of bi-refringent starch and how, in pharmacognosy, crossed nichols are used to detect crystals. The analyser is turned into the crossed position so that the field of view becomes dark and out of the darkness shine forth crystals of calcium oxalate. Not all crystals can be thus revealed. For example, common salt, potash alum or potassium bromide remain invisible. The determining factor is the nature of the crystal. Substances that remain invisible when rotated between crossed polaroids are called isotropic, because their physical properties, and in particular the velocity of light in them, is independent of the direction in which it is measured. They therefore have a single refractive index and all crystallise in the cubic system, in which the three crystallographic axes are mutually at right angles. Substances which, like calcium oxalate, do not behave in that way, and which are able to stand out between crossed polaroids, are called anisotropic and comprise the vast majority of crystalline substances. If a crystal of such a substance is brought into focus in the centre of the field of view between crossed polaroids and is slowly rotated (it must be done by carefully turning the slide by hand if the microscope does not carry a rotating stage), it will be found that the image of the crystal fades out in certain definite positions. The positions in which extinction is observed to occur enable anisotropic substances to be subdivided into two major groups. The first group exhibits "parallel" extinction. That is to say that extinction occurs when a crystal lies in a position parallel with the plane of polarisation of one of the polaroids. In rotating such a crystal between crossed polaroids, extinction occurs four times, each position being at right angles to the next and parallel to the plane of vibration of either the polariser or the analyser. Examples are to be found in quinine sulphate or picric acid in fact, all "uniaxial" substances, which possess one axis along which there is no double refraction and generally crystallise in the tetragonal or hexagonal crystallographic systems. Calcium oxalate, as the trihydrate, belongs in this group, the substances in which have two refractive indices. Crystals that suffer extinction in a position not parallel with either the polariser or the analyser are said to undergo "oblique" extinction, and the extinction angle further helps in characterising them. The substances are

known as biaxial because they possess two axes along which double refraction does not occur, and belong to the rhombic, monoclinic and triclinic systems (e.g., calcium oxalate monohydrate, copper sulphate, magnesium sulphate, sucrose). They have three refractive indices.

Not everybody finds enjoyment in analysis and classification. For those who do not, there remain the æsthetic potentialities of the polarising microscope. Polarisation, like diffraction, dispersion and interference, is a purely physical method of producing colour. Thus, though many anisotropic substances appear white when viewed between crossed nichols, others, even though they may be colour-

less in ordinary light, exhibit a brilliant display of colour. Interesting effects can be obtained with certain rock sections. Serpentine gives a magnificent chromatic display: zeolite and diabase are very colourful: gneiss and syenite contrive a subtler beauty in blue and grey. And there are great possibilities with more ordinary chemical preparations: quinine iodosulphate with its richly coloured clusters, or glucose or potassium chlorate with their plates of pure colour, are fascinating. Probably the most striking effects of all are those obtained by watching the crystallisation of low-melting-point substances as it is actually taking place on a microscope slide.

Bigger Business from HOLIDAY SNAPS

By LESLIE G. SANDYS, A.R.P.S., F.R.S.A.

UCH of the summer holiday snapshot trade is just waiting to be taken by the most alert dealers. Every holidaymaker knows that his films should be handed to the chemist for developing and printing, but

Take your Holidays Home!

All you need—

CAMERA

FILM

OUR EXPERT

DEVELOPING AND

PRINTING

he wants the best results in his photographs, so obviously he will, in nine cases out of ten, take his films to the dealer who advertises his service and shows that he is an expert.

It is not enough, therefore, for the dealer to rely upon an amateur photographer's knowledge of the place to which his films should be taken for processing. In August, of all months, the photographic window display should be the largest and most forceful that can be arranged. If that policy is necessary even for the business which is ready-made, how much more so is it indispensable for the creation of new trade?

Unlikely though it may appear, there are still people who embark on the summer vacation without giving a thought to the making of a photographic record of the occasion. The dealer who can influence someone to buy a camera and start taking pictures is doing more and better than to attract a customer away from a rival business: he is creating a new photographer, and that is to his immediate benefit as well as to the good of the trade in the future.

Window the Main Force

While all forms of advertising do their quota of business-pulling, the window display is the main source from which the dealer derives new holiday trade. The man on his fortnight's "away-from-it-all" rest does not often bother to read the local paper. He may see advertisement slides at the cinema; possibly he takes brief note of posters on billboards; even showcards in his hotel may serve a

useful purpose; but it is the dealer's shop window as he walks around the town that pulls the business.

Too much in a window designed to sell a man a camera is not a good thing. The tyro is merely confused by a mass of equipment, with the result that his enthusiasm may quickly evaporate in a maze of models and prices. Better by far to put in one or two cameras in each class: something for the box-camera man, a couple for amateurs who want one just a little better (the cheap folding model), a miniature or two, and offers in the high-price range. Do not put them too closely together, but let them all be seen.

There should be a setpiece to attract attention from afar. For that purpose nothing beats a big enlargement. Let it show a typical holiday scene—something on the beach or in the swimming pool if the shop is in a seaside resort, or in the country if the location is an inland holiday centre.

See that the print is firmly mounted on a stout board so that it does not cockle in the heat of the summer sun (if any!). It is a good idea to place the board so that it slopes from the front of the window-bed towards the window-back. That helps to lend depth to the display, but be careful not to overdo the effect or the result is that passers-by see the picture only when walking in one direction, while people going in the other direction may miss it altogether.

Finally, stress the three essentials to picture-making—to the immediate sale as well as to future business. Let a large showcard remind would-be customers that they need a camera, a film, and service in developing and printing the film. That, with a streamer bearing an eye-catching slogan such as the one shown in the illustration, should go a long way toward squeezing the most out of summer snapshotting business.

A PHARMACIST'S ANTHOLOGY

DR. Wang was a sort of Chinese Robin Hood, in the sense that he robbed the rich more often than the poor. He told me that after he had been in Pingshan a short while he had decided to "rationalise" the local health services. In practice this meant that he transferred drugs from the health station and the hospital to the shop. He argued that it was ridiculous to let the local gentry obtain their medicines free at the health station or subsidised at the hospital when they could perfectly well afford to pay the market price at the shop. As for the poor, they could not afford the subsidised hospital prices in any case, so the drugs would have been wasted if he had not moved them to his shop. Moreover, this series of transactions provided him with a degree of comfort usually denied to public officials in war-time China. This would undoubtedly prolong his life, and as doctors were scarce the whole thing was clearly a service to the Chinese people.—From "Drums and Drugs," a short story by Sydney D. Bailey, Manchester Guardian, November 23, 1953.

BEES AS BUSINESS-BRINGERS

BY BERNARD GILL, M.P.S.

THERE are upwards of 80,000 beekeepers in England and Wales, and over 400,000 colonies of bees. It is true that when sugar was derationed a number of people who had set up one or two hives in order to secure the allowance of sugar, ostensibly to feed the bees, lost interest in beekeeping and gave it up. The indiscriminate spraying, too, of orchards and farm crops with poisonous substances as a measure of pest control has resulted in a heavy mortality among honey-bees, and has discouraged beekeeping in many agricultural districts.

Opportunities in Suburbs

Yet enough apiarists, amateur and professional, remain to make it worth while for the country chemist to prepare and display remedies for the prevention or cure of diseases of bees, and also to stock various kinds of apparatus used in the apiary. In fact, the sale of those articles need not be restricted to the country chemist. Many suburban gardens conceal a couple of hives tucked away in a corner; and there is at least one thriving apiary on the flat roof of a block of offices within sound of the traffic that flows along Fleet Street, London.

The diseases that may attack bees are of two kinds: brood diseases and diseases of adult bees. During its development from the egg through the larval and pupal stages the honey-bee may fall victim to two bacterial diseases in the first group: American and European Foul Brood. A.F.B. is the most destructive and widespread of the brood diseases in this country, and its ravages cause heavy losses every year. Its cause is the spore-forming organism Bacillus larvæ. In America an attempt is being made to control it by means of sulphonamides, particularly sulphathiazole, which is fed to the bees in syrup. Encouraging results, too, have been obtained by the use of antibiotics such as terramycin and fumagillin.

In England the Foul Brood Diseases of Bees Order, 1952, at present requires the destruction by fire of infected colonies along with the combs and quilts, and thorough disinfection of hives, appliances and apparatus. Investigation is going on, however, at the Rothamsted Experimental Station; and in the near future it is possible that some treatment within the scope of the average beekeeper will be worked out. When that time comes drugs will be required, and there should be an opportunity for the retail

chemist to supply them.

The most important of the diseases affecting adult bees is acarine, formerly known as "Isle of Wight disease," which first swept through the apiaries of Britain in 1919. Acarine is caused by a parasitic mite, Acarapis woodi, which lives and breeds in the respiratory system of the bees. Eggs are laid in the tracheæ; they hatch out as males and females. Female mites are able to crawl out of a trachea and make their way to other bees, thus spreading the disease throughout the colony. They can, however, thrive only in bees less than five or six days old, so that bees which escape infec-tion during their first week of adult life are afterwards immune. Control of acarine, and its ultimate elimination, depend on continuous treatment, so that repeat sales of remedies are assured. The aim is to diffuse through the hive volatile substances that either kill all the mites in the bees' tracheæ, or prevent the females from migrating to young bees. The remedies in common use for the purpose are methyl salicylate and Frow mixture. Methyl salicylate, though its vapour is heavier than air, is carried around the combs by the circulation of air normally brought about by the workers in their ventilation of the hive. The most convenient way of applying it is to use a small flat tin having holes punched in the lid and containing absorbent wool saturated with the oil, or a 1-oz. vial, furnished with a cotton wick that goes to the bottom of the bottle and projects an inch or two beyond the neck. The formula for Frow mixture is:—

Nitrobenzene 2 Safrol 1 Petrol (or ligroin) 2

The mixture should be put up in small stoppered bottles labelled with directions for use and a warning that the contents are highly inflammable and poisonous. The dose is ½ dr. applied on a flannel pad placed over the feedhole at the top of each hive on alternate days until seven doses have been given. After the last application the pad is left in position for a further three days and then removed. To ensure accurate dosage (an important consideration, as too high a concentration of the vapour may kill the bees) a graduated measure should be sold with the mixture.

Methyl salicylate may be used as a routine measure of prevention all the year round, but the Frow mixture is suitable for use only in early spring or late autumn. During the active season, therefore, some beekeepers prefer to use sulphur cartridges burned in a smoker. The cartridges are made from corrugated brown paper cut into 3-in,-wide strips across the corrugations. They should be of such a size that when rolled they fit snugly into the nose of the smoker, which has a diameter of 2 in. The strips are soaked in a solution of potassium nitrate (6 oz. dissolved in one pint of water) and hung up to dry. A thick sulphur paste is made by stirring sublimed sulphur into a solution of gluesize (2 oz. in 1 pint), and the paste is applied to the strips with a paint brush. While they are still damp, and the corrugations well filled with sulphur, the strips are rolled into cartridges and sealed with a paper label. When completely dry they are ready for sale. The directions on the label should read "Place a well-lighted cartridge in the smoker and direct three powerful puffs of smoke into the entrance of the hive on ten successive evenings. Repeat the course after an interval of seven days."

Wax-Moths and their Destruction

The chemist who caters for the needs of beekeepers will soon have inquiries about preparations for the destruction of wax-moths. Some strains of bees are remarkably tolerant of the presence of wax-moth larvæ in their homes; but a fumigant powerful enough to kill the grubs cannot be used as it would poison the bees. Paradichlorobenzene should be packed with the empty combs when they are stored for the winter, to sterilise any eggs that may be present, concealed in the crevices of the frames, and to repel the adult moths.

The majority of beekeepers make light of stings, but they are glad to know of an antidote, if only for the treatment of friends or neighbours who may chance to be stung. No external application can be guaranteed to give relief in all cases, but the local application of one of the antihistamine creams may be recommended with confidence as the soothing effects are usually felt at once, and the victim's anxiety is immediately allayed. For persons who are sensitive to bee venom the antihistamine drugs, too, are a useful palliative, but they cannot be supplied except on prescription. In America, where apparently the poisons regulations are not so stringent as in Britain, capsules containing ephedrine sulphate, gr. 3, and Amytal, gr. 3, are a favourite antidote. Customers obviously suffering from shock as a result of stings should be referred to a doctor. Standard injections prepared from the whole body of the bee, and not merely from its venom, are now available for treatment of severe cases.

Yellow beeswax in blocks is stocked by most chemists, but what the apiarist needs is wax in the form of foundation, which is made in sheets of two standard sizes stamped with the shape of the bases of the cells forming the completed honeycomb. It may be had either plain or reinforced with rustless wire electrically embedded in the wax.

Honey jars of standard pattern, and lever-lid tins fitted with handles, are articles for which there is a brisk demand in the extracting season, and the trade is worth cultivating. Customers of discrimination appreciate the fine flavour of English honey that has been skilfully matured, blended and crystallised; and if some of the chemist's beekeeping customers can keep him supplied with honey of this grade, tastefully packed and labelled, he can build up a reputation as a vendor of honey that is different from the general run of imported blends on sale in the provision shops. Not only the honey-bee itself but also the chief product of its industry may be truly described as a business-bringer.

MEDICAL ABSTRACTS

DUST NOT SOLE CAUSE OF CROSS INFECTION

In a study of nasal and wound cross infection with penicillin-resistant Staph, aureus in two surgical wards for about eight-and-a-half months, Clarke and others (Lancet, 1954. 2. 211) found that oiling the floor, screens and bed-clothes did not affect the rates of cross infection of nose and wound, though it reduced the numbers of bacteria in the air of the treated ward. The authors infer that dust played at most a minor part in the transfer of penicillin-resistant staphylococci from person to person in the test ward. They believe that spread by contact may be the most important mode of dissemination, and suggest efforts to limit contact spread.

ALDOSTERONE IN ADDISON'S DISEASE

RESULTS that seem to justify further investigation of the oral administration of aldosterone ("salt-regulating" hormone of the adrenal cortex) in Addison's disease are reported by Kekwick and Pawan (Lancet, 1954. 2. 162) in a case they treated. The patient was a thirty-nine-year-old man who had had intermittent attacks in the previous four years. All therapy was stopped, and the patient was put on a strict and constant diet containing 2.5 litres of water, 64 gm. of protein, 3.2 gm. of sodium, 2.4 gm. of potassium and 5.1 gm. of chloride daily. In five periods, two of them controls, the effects of aldosterone were studied and compared with those of deoxycortone acetate in an amount believed equivalent. 100 microgm. of aldosterone given orally was found to maintain the patient "in reasonable electrolyte balance."

EXCRETION OF POLYVIDONE

AFTER surgical operation in twenty cases in which polyvidone had been used as a plasma substitute the urinary excretion of that substance was measured by Wilkinson and Storey who report in the Lancet (1954. 1. 1269). It was found that polyvidone equivalent to more than 70 per cent. of the quantity injected was recovered in five patients, 50-70 per cent. in nine, 40-50 per cent. in five, and less than 30 per cent. in one. The authors point out that the rate of urinary excretion of macromolecules, such as polyvidone and dextran, has been shown to be inversely proportional to their molecular weight. It seemed likely that, if the equivalent of more than 60 per cent. of the polyvidone in a standard preparation was excreted by three people, that preparation contained a high proportion of material of low molecular weight.

SYNERGISM OF RESERPINE AND PENTAPYRROLIDINIUM

In tests with reserpine, an alkaloid of Rauwolfia serpentina, in association with pentapyrrolidinium, Doyle and McQueen (Lancet, 1954, 2. 159) found that the combination gave better control over the blood-pressure level in hypertensive subjects than either substance used separately. Adding reserpine involves smaller dosages of pentapyrrolidinium, and usually reduces the side-effects. Use of the two drugs in combination decreases the wide swings of blood pressure experienced with methonium compounds used alone. The authors point out that, when strokes have occurred in the course of methonium treatment the onset of the cerebral accident has usually coincided with a highlevel blood-pressure, "It remains to be seen whether a combination of drugs that seems to lessen the swings of blood pressure will influence the incidence of major cerebral accidents."

OXYGEN DAMAGE TO BABIES' EYES

THE rôle of oxygen in causing damage to the eyes of premature infants has been investigated by Forrester, Jefferson and Naunton (Lancet, 1954, 2, 258), who confirm the theory that a new disease "retrolental fibroplasia" is rare in the absence of concentrated oxygen. Since October 1951 the amount of oxygen given each infant in two premature units in Manchester has been greatly restricted, and there has been no case of blindness due to the disease since November 1951. During the past seven years, eighty-three cases of retrolental fibroplasia had been encountered at those units, most of them during the first half of 1951. Twenty-one of those infants were blind, and there was permanent damage in thirty-six cases. During 1947 and 1948 oxygen was used but rarely, and only one case of the disease was noted. Oxygen was used more intensively from 1949 onwards, reaching a peak in 1951. The concentration used reached 80 per cent. in some cases, but since 1951 few infants have been subjected to more than 50 per cent., and then only for a few hours for immediate resuscitation. Where prolonged use of oxygen is necessary, the concentration is reduced very slowly, taking several days to come down from 40 per cent. to atmospheric concentration.

BENETHAMINE PENICILLIN ON TRIAL

THE first clinical trials of benethamine penicillin are deseribed in a paper by Nelson, Talbot and Binns (British Medical Journal, 1954. 2. 339). A co-ordinated trial was carried out at three hospitals to determine the serum levels attained after the intramuscular injection of different doses of the salt. Thirty-three bed patients were given a single intramuscular injection of 300,000 units; twelve patients received 600,000 units and ten patients received 900,000 units. Groups of six bed patients and seven ambulant medical students were respectively given 300,000 units and 600,000 units intramuscularly on three alternate days. Assays were performed daily, starting twenty-four hours after the first injection. On the second and fourth days blood was taken before the injection was given so that only the penicillin given forty-eight hours previously was assayed. The results showed that the average penicillin serum concentration was maintained above 0.03 unit per mil for four days after 300,000 units, for five days after 600,000 units, and for six days after 900,000 units, but the level achieved during the first few hours was similar whatever dose was given. Doses of 300,000 or 600,000 units given on alternate days did not appear to have a cumulative effect. They did, however, confirm that doses of 300,000 units every two days or 600,000 units every three days could maintain the penicillin in the blood at over 0.03 unit per mil. The authors note that although as a rule the suspension seemed easy to handle, syringe or needle blockage oecasionally occurred in the earlier stages of the trial and was found more often in syringes lubricated with paraffin or silicone lubricants. The only side effects were a few instances of slight stinging pain or of mild stiffness or aching at the site of injection. five instances, a more pronounced local reaction occurred The authors recommend deep intramuscular injeclater. tion into buttock or thigh. The authors conclude that the levels obtained were lower and more prolonged than those obtained with procaine penicillin but higher and of shorter duration than those that followed the injection of benzathine penicillin. It is suggested that, from a consideration of blood levels, one injection, possibly two, of 600,000 units for an adult or 300,000 units for a child should be adequate to treat the more sensitive and accessible infections seen in everyday practice.



I am about to fit out a second shop and would like your advice on layout and shopfitting. The premises are quite small, 13 ft. wide by 25 ft. long, out of which I want to make a shop and dispensary. be obliged if you could send me some sketches or plans that would be suitable for this size of shop, or perhaps you could refer me to some handbooks or catalogues on shopfitting?

THERE are not, unfortunately, any handbooks that I can recommend to you on shopfitting. There are in fact very few books on the subject, and those which have been written are now out of print. Foyles, Ltd., with whom I have checked, state that they have no books on this subject, either in their new or secondhand sections. You may be able to obtain some information from shopfitters, but the normal way in that event is for the firm approached to

F. 5.4 STOCKROOM & DISPENSARY ے d F. c. curtain c, F. S.C. C F. s.c enclosure entrance door.

produce a plan specifically to meet your requirements rather than to submit a series of illustrations from which you select. I have myself drawn you a plan as shown in the accompanying illustration, the details of which are

In preparing this layout, I have assumed two points from your inquiry: (a) that you are referring only to an interior layout and not to a shopfront and interior, the length of 25 ft. being from the inside face of the existing enclosures to the rear wall; (b) that the existing shop front has a central entrance door. The major difficulty of the has a central entrance door. The major difficulty of the site is the narrow width of 13 ft., as that obviously means that service can be given from one side of the shop only. One object of the design should be to create if possible a feeling of visual width and the layout submitted is based upon that point. The fittings and counter are taken in a gentle sweep from left to right and run into the righthand wall upon which is mounted a long mirror. The mirror would be the same height as the fittings (approximately 7 ft.) and would finish down upon a base about 6 in. high. The counter, which is purpose made, would have either a veneered front of wood or laminated plastic with three inset display cases as indicated on the plan. Between the long mirror and the window enclosure would be two showcase fittings having illuminated cases in both the upper and lower parts, access being by all-glass sliding doors. Alternatively the lower part could be for stock, with wood slid-ing doors, while the illuminated showcase is retained above.

A curtained opening between the fittings leads to the stockroom and dispensary beyond. In the dispensary would be open locker fittings on two walls and a dispensary bench backing upon the forward shop fittings. Shelves would be fitted above the bench as required and at the far end a sink is fitted. As the shop is small, I would suggest that your fittings be kept light in colour; possibly in a light oak; and that the general decorations be in pastel shades as a light coloured treatment helps in creating the effect of spaciousness. A plain light-coloured lino for the floor

also helps in that respect.

CORRESPONDENCE

DISPLAY DISCOUNT

SIR,—I received a mailing this morning from a wellknown firm oozing with adulation for their new shampoo, and inviting me to order now to benefit from the introducto the first and bottles of a net value of 22s. 4d. I shall be given a 5 per cent. discount amounting to 1s. 1½d., provided I display for at least one month (I must give an undertaking in writing to that effect). Words fail me in expressing my admiration for this unique example of generosity. LONDON, S.E.15 F. BREAN

PAID FOR IT

SIR,—Recently a bright young man entered my shop and introduced himself as the representative of an ethical manufacturer well known to most of us. He plunged into a story that he had visited the local doctors and got them interested in his company's products. He went on to say that some of those items were supplied only direct from his firm, but that that need cause no difficulty to me because all I had to do was to pin the EC10 form to my letter-heading and his principals would supply. When I ruefully explained I had no account with his company and that for me to sit down and dispatch a special order meant added labour, he bluntly informed me that that was what I got paid for! Looking him in the eye I asked who paid me, what for, and how much? He replied: the Ministry of Health, for dispensing, and one shilling, of course! I had to enlighten him that it cost me $2\frac{1}{2}$ d, in stamps to send off the EC10, twopence more to pay for the cheque in payment for the goods, and a further $2\frac{1}{2}d$, for the envelope containing the cheque. I felt sure the Executive Council would be paying me only eightpence for the transaction for, of course, it involved no extemporaneous dispensing. My young friend said he had never had it worked out for him before. I could hardly believe this—but in case my fellow pharmacists get assailed with similar representatives, I trust they will meet him as I did—by throwing my arms around his neck and kissing him. HAYLE

R. W. WAKEFORD

30108

ANY BUSINESS QUESTIONS?

A Chartered Accountant gives answers to

I have formed my business into a limited company and transferred the assets at their cost to mc. The inspector of taxes is now asking me "What is the position under Section 327 of the Income Tax Act, 1952, arising out of the take-over of the company?" What does this frightening question mean and what can it imply?

THE section cited is designed against transactions whose sole or main benefit is in obtaining additional capital allowances. By an "artificial sale," not only could increased allowances be obtained but also investment or initial allowances could be given twice in effect to the same partics. However, where a bona fide case exists and the buyer happens to be a company of which the seller has control, as in the present instance, capital allowances in the usual way will be given on the balance of the cost of the asset not so far allowed at the date of the sale to the company. But the parties to the sale must elect in writing to have that procedure applied, otherwise a balancing charge may result, and the complicated provisions of the section regarding limitation of allowances to the new company may come into effect. The inspector is apparently asking for that election.

With the assistance of a loan, I have in mind the purchase of a pharmacy, a company to be formed with sufficient shares to cover that loan and money I should introduce myself. Estimating future net profits (deducting our salaries and setting aside a small reserve) I could in, say, nine or ten years, repay the loan out of my share of those profits, so acquiring all the company's capital. The enclosed sheet shows my calculations but, as you will see, the amounts repaid do not take income tax into account. Does the scheme, in your opinion, sound feasible and worth taking up? Accommodation on the premises is preferred. What sort of capital is likely to be required, taking into account goodwill, stock and fittings?

THE scheme as set out does not, as you rightly indicate, take into consideration tax liability on the profits of the company after charging salaries. That is a factor that cannot be disregarded. As it stands, tax is payable at the standard rate on the assessable profits of the company, including the reserve made, with the effect that profits, by reason of deduction of tax, will be at least 45 per cent. less. If affairs cannot be arranged in a manner that permits additional "repayments" the period of acquisition must be necessarily somewhat lengthened. It is, however, possible to reduce the effective rate of tax if profits can be distributed in the form of salaries or other earnings to the proprietors. The scheme seems otherwise feasible, provided that the estimates of profits to be expected materialise, and provided also that working capital (that is, capital over and above fixed assets) is adequate to the circumstances and demands of the business to be taken over.

After a lengthy correspondence with my income-tax office, I have had it politely pointed out to me that I have a right of appeal. Could I now appoint an accountant to act on my behalf if I still want to proceed and, if so, would his costs be allowed as a business expense?

THE appeal is heard before the Appeal Commissioners, and an accountant who is a member of an incorporated organisation of accountants and is appointed to act on behalf of the taxpayer may plead and must be heard by them. (In appeals concerning land or property, any agent appointed must be heard.) Costs of an income-tax appeal, as decided in the courts some years ago, are not an allowable business expense since such costs, normal accounting costs apart, are regarded as being payable in the capacity of taxpayer on profits already made. Even if the appeal is successful, they are still disallowed. A concession given by the Inland Revenue refers to costs of a successful appeal against a surtax assessment made on a company.

I hold a 33\frac{1}{3} per cent. interest in a business partnership. Am I able to withdraw my capital and share of profits to date as and when I please? If my partners and I were to sell the business we should include in the price some value for connections and goodwill. Would I be entitled, if I were to withdraw, to some compensation for loss of my share in that value?

MUCH depends upon the particular articles entered into as to whether a partner may withdraw from a partnership and what he is entitled to on withdrawal or dissolution. Generally, where a partnership is not for a fixed term, notice given to the other partner(s) suffices, and, unless the articles provide for a stipulated period for notice, it will operate from the date put forward (if none is stated, the date of receipt). Goodwill is an asset belonging to the partnership and, unless there is some agreement to the contrary, a retiring partner is entitled to have included, as part of his capital, his share of the value of goodwill and also of the profits to date of dissolution of the partnership by his withdrawal from it.

Can you outline for us a careful and systematic method of recording incoming goods?

BRIEFLY, the aspects to be covered are: 1, The ordering of goods; 2, checking their physical receipt and invoices referring thereto; 3, entry in the books of the business; and 4, passing statements for payment. Numbered order forms (with carbon copy), signed by the person responsible for ordering, should give precise requirements. Both delivery note and invoice should be checked with order given, shortages and other deficiencies being followed up immediately. Price, calculations and invoice total will also need to be checked and the invoice may be given a number and rubber-stamped to show by whom each particular task has been undertaken, including passing for payment, entry in the purchase book (giving the folio) and allocation to the account in the private ledger. The invoices may be classified during the month and entered in the purchases book (analysed as appropriate), grouped and totalled under each supplier and the book so ruled each month as to permit of dispensing with a separate accounts ledger but allowing cash and discounts, if any, returns, etc., to be entered and showing balances brought and carried forward. Invoices and credit notes should then be filed away in numerical order for ready reference.

I am the owner of a property consisting of a retail shop of which I am also the sole proprietor and premises above the shop partly occupied by myself. I asked the tax office for information about a demand made on me in respect of excess rents, and I have now received back their computation of the assessment. I find they have added to the rent I actually received a nominal figure for the premises occupied by me, and also for the shop, but have only deducted rates (which I pay entirely) for the part let. That seems anomalous to me. Is there a satisfactory explanation?

To discover what are the excess rents for tax purposes, you must compare the rent received with the assessment on the property already made. But first the amounts received must be adjusted to bring them to a comparable basis. The assessment or net annual value of the property is arrived at by taking the property's value on the basis that the tenant is responsible for the rates and landlord for the repairs. Thus, if the landlord pays the rates, they must be deducted before making the comparison. So far as the part and shop occupied by the landlord is concerned, he is, in his capacity as occupier, liable for the rates himself, and therefore no deduction is made from the value ascribed to those portions of the property, usually taken at the gross annual value. The statutory repairs allowance is then computed on the rents received, plus the gross annual value of the occupancy with adjustment for the rates, giving the excess rents assessment.

NOTES FROM JAPAN

IHE Japanese National Examination Deliberative Council has decided that, from 1954, the national examination for pharmacists shall be held twice yearly, instead of once as at present. At the last examination no less than 2,000 candidates presented themselves.

Dr. Akira Ogata (former chairman of the Japan Pharmacopæia Committee and professor emeritus of the University of Tokyo) has been elected president of the Japan Pharmaceutical Association. Dr. Ogata was a graduate of the Pharmacy Faculty of Tokyo University in 1912, and since his resignation from his professorial chair on reaching the age limit has been chairman of the National Board of Pharmacy attached to the Ministry of Health and Welfare.

The Takeda Pharmaceutical Industries and Shiraishi Pharmaceutical Companies have been granted approval by the National Board of Pharmacy for the manufacture and sale of digenic acid in a new preparation having Corsican moss as the effective ingredient and stated to be more effective than santonin as an anthelmintic.

Recently the Ministry of Welfare allotted the sum of \$133,000 for the importation of chloramphenicol from West Germany.

A census carried out by the Ministry of Welfare showed that there were 17,017 registered manufacturers of pharmaceutical products in Japan, 14,104 of them pharmacy proprietors manufacturing on a small scale for sale in their own pharmacies,

The Japan Penicillin Association gives the output of penicillin in March as in excess of 5,200 billion units, of which procaine penicillin in oil alone accounted for 3,300 billion units. Exports of penicillin from Japan rose from a value of \$1,000,000 in 1952 to \$1,230,000 in 1953 (on an average 25 per cent. of the total production), chiefly to Korea, with a smaller proportion to Communist China.

In 1953 exports of drugs from Japan were valued at 2,116,083,000 yen. The

value of imported drugs was 4,109,035,000 yen. According to figures published by the Ministry of International Trade and Industry, exports of medical and pharmaceutical goods in April represented a total value of \$619,380.61, consisting of drugs \$487,247.11; medical appliances \$56,212.87; sanitary materials \$8,622.90; dental appliances \$67,297.73. The destination of the exports is classified as: To dollar areas, \$94,493; to sterling areas, \$236,538.38; to open account areas, \$288,347.91.

Next year the Pharmaceutical Society

Next year the Pharmaceutical Society of Japan is holding its 75th annual meeting. In celebration of the occasion

a history of the Society during the seventy-five years of its existence is now in course of preparation. The question of founding a Society for Japanese Pharmaceutical History has been raised by a number of members, and it is proposed to hold an organising meeting at an early date.

ing meeting at an early date.

To assist in combating the damage done to the cultivation of cereals by noxious insects, the Sumitomo Chemical Co., Ltd., has completed the necessary equipment for the manufacture of parathion in one of the sections of its Tsurusaki, Oita Prefecture, works. Manufacture is being undertaken with the technical co-operation of the American Cyanamid and German Bayer companies.

DEVELOPMENTS IN THE UNITED STATES

AT least eleven mental or nervous disorders may be caused by vitamin deficiencies according to a report prepared by Dr. Robert A. Peterman (medical director, J. B. Roerig & Co., Chicago, Illinois), and Dr. Robert S. Goodhart (scientific director, National Vitamin Foundation, New York). In the report, which is based upon seventy-four studies, the disorders listed include mental deterioration or depression, hysteria, defective memory, loss of sense of truth, hallucinations, ideas of persecution, anxiety, irritability, etc. It is suggested in the report that one or more vitamins, in doses that may range as high as ten times the amount required for normal nutrition, may be indicated as therapy for the conditions involved.

The report also explains that compared with certain drug therapy the response may not be immediate and therapeutic dosage levels may have to be repeated daily for a considerable period of time. Major emphasis is placed on the B vitamins and lists of symptoms caused by deficiencies in those substances include: For thiamine, forgetfulness, difficulty in orderly thinking, ideas of persecution, insomnia, degeneration in cranial and other

nerve structures; for riboflavin, mental depression, visual disturbances, mild mental confusion, inability to concentrate and perform mental tasks; for niacin, depression, apprehension, anxiety, irritability, memory loss (later), mania, delirium, hallucinations, dementia; for pyridoxine, epileptiform convulsions, weakness, insomnia, irritability.

Hoffman-La Roche, Inc., Nutley, New Jersey, are enlisting the aid of doctors throughout the United States in recruiting promising students for a career in pharmacy. In a letter to doctors, which has already evoked a considerable response, Mr. Robert A. Hardt (vice-president of the company) is asking the doctors to tell potential pharmacy students of the booklet, "Shall I Study Pharmacy?" published by the American Association of Colleges of Pharmacy. Beginning with the question: "Do you know a young man or young lady who will soon graduate from high school who might be interested in a career in pharmacy?" Mr. Hardt's letter continues, "No doubt you will agree that it is in the interest of the medical profession as well as pharmacy to induce superior students to become pharmacists of the future."

CLERICAL WORKERS IN CHEMICAL INDUSTRY

THE median weekly wage rate at March 1 for male clerks doing responsible and senior work in the chemical and allied trades was 253s. 10d. For females the comparable rate was 200s. The figures were arrived at after a survey made by the Office Management Association of 106 establishments in Great Britain covering 8,604 clerks. In its report, "Clerical Salaries Analysis, 1954" (price 25s.), the Association

gives information about clerks' wages in most industries—information that is not available from government sources as in the case of manual workers. The table reproduced below covers all grades of clerks in the chemical indus-

try throughout the country. It should be borne in mind, however, that wages vary according to the geographical location of the offices, and the report gives further tables for London (three) and East and West Ridings (one).

Median salary is that at which there are as many individuals getting less than the amount as there are getting more. The lower and upper "quartiles" are obtained in a similar manner to the median. Grades A and B=very simple routine work; grade C=routine work; grade D=routine work with variations; grades E and F=responsible and senior work.

					Male				Female			
4	Grade			Median Rate	Lower Quartile	UPPER QUARTILE	No. of Clerks	MEDIAN RATE	Lower Quartile	UPPER QUARTILE	No. of Clerks	
ь	Younger Older Younger Older Younger Older 				s. d. 64 6 149 6 70 0 145 0 160 0 170 0 195 6 253 10	s. d. 50 0 	s. d. 67 6 78 10 155 6 176 8 171 6 195 0 217 6 280 5	61 9 92 150 364 152 931 901 342	s. d. 53 0 95 6 65 0 107 6 100 0 120 0 125 0 145 0 200 0	s. d. 47 6 57 6 95 0 84 9 110 6 112 0 132 6 169 6	s. d. 60 0 73 10 120 10 110 0 132 0 139 6 160 0 227 6	283 7 701 538 1,474 366 1,218 768 247

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 11: The market for CRUDE DRUGS retained its firm tone throughout the week, with shortages of stocks reported in many directions. First-hand offers of SENEGA from origin are still awaited here, but the indications are that the price will be around 18s. 6d. per 1b., c.i.f.

The small lots of Buchu (old and new crops) offered in the previous week were taken up and it appears that there will be no more supplies available until the next crop is ready.

There was no change in the position of IPECACUANHA and only at infrequent intervals is Chinese RHUBARB now offered on the market. For the first time in months, however, Formosan CAMPHOR POWDER was offered for shipment whilst TABLETS were firmer by about threepence per lb. The prices of GINGER were held at their recent record levels. In contrast, Chinese star Anise was quoted 12s. lower per cwt. for shipment and GALANGAL, 5s. lower, while Chinese MENTHOL was sixpence per lb. less for shipment. Tin-nevelly Senna shipments from Tuti-corin to the United Kingdom and Europe increased during July. Despite the ban imposed by India on the export of Rauwolfia Serpentina and now extended to other varieties of rauwolfia, shippers were able to move 66 tons during July under licence in fulfilment of contracts entered into before the ban was imposed. The countries to which those supplies were shipped from Tuticorin are given in the table below:-

	U.K	U.S	CONTI- NENT
SENNA LEAVES	bales 78	bales	bales 707
Senna Pods	34		239
RAUWOL- FIA SER-	bags	bags	bags
PENTINA	220	900	200

Arrivals of new-crop senna at Tuticorin are reported to be small and the fact is borne out by the few offers received in London recently. Shipment offers for Fenugreek seed advanced in Morocco because of heavy buying on the part of Italy. Stocks of Mombasa CHILLIES are cleared on the spot.

Mercury

Italian and Spanish MERCURY producers have reached an agreement settling the differences existing since the Mercurio-Europeo cartel was dissolved by Spain. Details of the agreement have not been released but it is stated that both producers are now "in friendly relations, although retaining freedom of action in world markets." They categorically denied reports that the talks (C. & D., July 31, p. 124) were aimed at reconstituting the old cartel. Meanwhile the Central Statistical Institute in Italy state that 1,441 tons of mercury were exported from Italy during the first half of the year against 490 tons in the corresponding period of 1953 thus demonstrating the

present heavy demand for the metal.

MERCURIC and MERCUROUS IODIDES were advanced by 1s. 9d. and 2s. per lb. respectively. Otherwise there were no important movements in Pharma-CEUTICAL CHEMICALS and trading was generally slow.

The ESSENTIAL OILS market displayed a firm tone with quotations for many oils considerably advanced. Higher per lb. were ANISE (up threehalfpence); Bois de Rose (one shilling); CITRONELLA, Formosan, and LEMONGRASS (both sixpence); PALMA-ROSA (2s. 6d.); Chinese PEPPERMINT (one shilling) with Brazilian (1s. 6d.). Only Bourbon VETIVERT was lower at 92s. 6d. (down 2s. 6d.).

Pharmaceutical Chemicals

AMIDOPYRIN.-In 1-cwt, lots the price is 24s. 6d. per lb.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 61s. 6d.

AMPHETAMINE.—Prices (per kilo) for 25kilo lots are as follows:—Base. 1603.; SULPHATE, 130s.; d-Amphetamine, 550s.

AMYLOBARBITONE. — B.P.C. is 65s. p lb. for 1-cwt. lots and Sodium, B.P.C., 70s. per 1b.

Antimony salts,—Quotations for pot-assium tartrate, B.P., are 7s. 6d, per lb. for 1-10 cwt. and Sodium tartrate, B.P., 13s. 3d.

BENZOIC ACID.—1-cwt. lots are 3s, $0\frac{1}{2}d$. per lb. The SODIUM SALT is 2s, $10\frac{1}{2}d$. per lb. in 1-cwt. lots.

BENZYL BENZOATE. - Makers' offers of B.P. grade range from 4s, per lb, for 1-ton lots to 6s. 9d, for smallest quantities.

Boric Acid.—Prices for B.P. grade in quantities of 1-ton and upwards are as follows:—Granular, £80; crystal, £87; powder, £84 10s.; extra-fine powder, £86 10s, per ton, in 1-cwt. bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt., 3-cwt., 2s.: 1-cwt.. 3s. 2s.; 1-cwt., 3s.

BROMIDES.—Potassium B.P., crystals in 5-cwt. lots are 2s. 10½d per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. per lb. in 5-cwt. lots and SODIUM, 2s. 9½d. per lb.

Brucine.—Alkaloid is from 1s. 8d. to 1s. $9\frac{1}{2}$ d. per oz., and nitrate and sulphate from 1s. 7d. to 1s. $8\frac{1}{2}$ d. per oz., as to quantity.

Calamine.—1-cwt. lots are 1s. 7d. per lb.; 10-cwt., 1s. $5\frac{1}{2}$ d.

CALCIUM PANTOTHENATE.—Price per kilo is £32 10s.

CARMINE.—1-cwt. lots are about 87s. 6d. per lb.

CHLORAL HYDRATE. - In 1-cwt, lots the price is from 3s. 10d. per lb. as to holder. CHLORBUTOL.—28-lb. lots are at the rate of 10s, per lb.

CHLOROXYLENOL .- B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CINCHOPHEN.-1-cwt. lots are quoted at 21s. per lb.

CITRATES.—Rates (per lb.) are as follows:—Potassium, 1-cwt. lots, 3s. 6\flact{4}. (28-lb., 4s. 6d.; Sodium, 1-cwt., 2s. 11\flact{4}.; 28-lb., 3s. 10d. (powder of both salts two-pence more). Iron and ammonium, 1-cwt. lots, 3s. 10\flact{1}/2d. granulated, 4s. 2\flact{1}/2d. scales.

Cresol.—Price of B.P. quality from distillers is 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE.—B.P.C. and CALCIUM DERIVATIVES in 1-cwt, lots are 65s, per lb. DIPHENAN.—Prices range from 58s. to 67s. per lb., according to quantity.

EPHEDRINE. — In 100-oz. lots Alkaloid is about 8s, per oz. (262s, per kilo); HYDROCHLORIDE, 4s. 7d. (161s. 8d. per kilo); SULPHATE, 5s. 6d. (194s. per kilo). GALLIC ACID.—B.P.C. is 8s. 1d. per lb.

for 1-cwt, lots. HEXOBARBITONE, - B.P. in 1-cwt, lots is

55s. per lb. MANDELIC ACID. — 1-cwt, lots in 28-lb, containers are 10s, 9d, per lb, The CAL-CIUM SALT is also 10s. 9d, while SODIUM is 11s, 3d, per lb, for 1-cwt, lots,

PILOCARPINE. — In 100-oz, (or 2½ kilo) lots prices are: HYDROCHLORIDE, 42s, 6d. per oz. (1,428s, 6d. per kilo); 38s. per oz. (1,340s, per kilo).

- B.P.C. lump POTASH, SULPHURATED. is 2s. 3d. per lb. for 1-cwt. lots.

POTASSIUM BICARBONATE. - B.P. powder is 130s, per cwt.

POTASSIUM BROMATE.—In 5-cwt. lots 7s. per lb. In small quantities the prices range up to 8s. 9d. per lb.

POTASSIUM CHLORIDE. - In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM HYDROXIDE. — B.P. sticks are from 6s. 6d. per lb.

POTASSIUM NITRATE. - Pharmacopæial quality is 145s. per cwt. (crystal, glar or powder) and commercial, 90s.

Pyrogallic acid. — Pure crystals are 18s, per lb. in 1-cwt, lots.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home maket are: Alkaloid, 8s. 9d.; Sulphate, 6s. 7d. Extra charges for small lots.

RESORCINOL. — 1-cwt, lots are no quoted at 13s, per lb, by manufacturer.

Crude Drugs

Aconite. — Spanish napellus is 3s. 6d.

per lb., duty paid, ex wharf.

AGAR. — Kobé No. 1 on the spot is from 16s. 6d. to 17s. per lb. Shipment, 14s. 9d., c.i.f.

ANISEED. — Chinese star is offered at 200s, per cwt., duty paid and 145s., c.i.f. Antimony. — English 99.6 per cent, £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS. — Quotations are about 45s, per cwt. for Ceylon material on the spot. Shipment, 42s. 6d., c.i.f.

ASAFŒTIDA.—Persian block is from £10 to £14 per cwt., duty paid, as to quality. Balsams.—Quotations (per lb.) are:-

Canada: 20s., spot. Copadba, B.P., 11s. 6d. Peru, 9s. in bond. Tolu (genuine as imported), 26s. 6d. spot and 26s., c.i.f.

Benzoin.—Sumatra block No. 1 on the spot is from £30 to £34 per cwt. Forward, £28 10s., c.i.f.

BISMUTH METAL.—Minimum rate is 16s. per lb.

Buchu.—No shipment offers from any source. Spot supplies have been cleared.

CALUMBA. - Ordinary natural sorts are quoted at 90s, per cwt, on the spot.

CAMPHOR. - Shipment offers (c.i.f.) as follows: Formosan powder, 5s.; tablets, $\frac{1}{4}$ -oz., 5s. 6d. per lb.; $\frac{1}{4}$ -oz., 5s. 8d.; $\frac{1}{8}$ -oz., 5s. 9d.

Capsicums.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 195s., spot, duty paid.

13s. per lb. on the spot; prompt shipment offers are 11s. 3d., c.i.f.

CASCARA SAGRADA.—New-crop, 240s. per cwt., c.i.f., London. Spot material (old-crop) value is 310s., duty paid.

CHAMOMILE. — Belgian flowers are 5s. to 5s. 6d. per lb. on the spot.

CHERRY BARK. — Thin natural is from s. 8d. per lb., duty paid, and rossed, 2s. 1d., on the spot.

CHILLIES. — Mombasa. Spot cleared; shipment 325s. per cwt., c.i.f.

CINCHONA. - Price per lb. varies from 7d. to 2s. according to test.

CLOVES.—Quiet. Zanzibar on the spot are 4s, 3d. per lb.; prompt shipment, 4s, 1½d., c.i.f.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

COLOCYNTH.—A small quantity of pulp is offered at 1s. 10½d. per lb., duty paid. ERGOT.—Portuguese f.a.q. is quoted at 17s. 9d. per lb., c.i.f.

GALANGAL.—Root is quoted at 75s, per wt., c.i.f., for shipment, and spot, 80s. to 85s.

GENTIAN. - French natural on spot is

firm at 105s. per cwt.

GINGER.—African is firm on the spot at 240s. per cwt. with shipment offers advanced to 235s., c.i.f. Jamaican No. 3 is 245s. on the spot and 240s., c.i.f.

Henna.—Indian is 105s. and Egyptian, 130s. to 140s, per cwt. on the spot.

HONEY.—Quiet. Australian light-amber is unchanged on the spot at from 100s, to 108s, per cwt. and medium-amber, 92s, 6d, to 97s, 6d, Argentine is quoted at from 115s, to 120s, and Jamaican from 120s, 120s. 120s. to 130s.

HYDRASTIS.—Root is 18s. per lb., on the

IPECACUANHA. — Limited quantity Nicaraguan is offered for shipment at 69s. per lb., c.i.f. and Matto Grosso, 56s, 6d., per lb., c.i.f. and Matto Grosso, Jos. oc. c.i.f. Spot supplies difficult to locate.

KOLA NUT. - African halves are available on the spot at 5\frac{3}{4}d. per lb.

LANOLIN. — In 1-ton lots the price of ANHYDROUS, B.P., is about 200s. per cwt.

LIQUORICE.—Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 220s, per cwt. on the spot. Italian stick, from 310s. to 475s. per cwt., duty paid.

LOBELIA.—Herb is quoted at 3s, 3d, per lb. on the spot.

MACE. — West Indian pale blade is 9s. per lb.; for shipment. 7s. 10d., c.i.f. Menthol. — Spot, Chinese is about 28s, 3d, per lb., duty paid; 26s, 9d., in bond; and 25s, 6d., c.i.f.

MERCURY. - Nominal spot value is £100 per flask (76-lb.), ex warehouse.

Myrrh.—Aden selected sorts are about £14 10s, per cwt, on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 7d., c.i.f., for shipment.

ORRIS ROOT.—Florentine on the spot is 185s. per cwt.; pro infantibus, 8s. per lb.

PAPAIN.—Spot value for East African grade one is 20s. per lb. Ceylon white is about 24s.

PEPPER. — White Sarawak is reported sold at 5s. 9d, per lb. spot with forward parcels quoted at from 4s. 3d. to 4s. 6d., c.i.f. Black Sarawak is now offered at 4s. 6d. spot and afloat, 3s. 3d. to 3s. 6d., c.i.f. Black Malabar, 540s. per cwt., spot.

PODOPHYLLUM. — Peltatum is 336s. per cwt. on the spot. Emodi is 140s.

QUASSIA. — Spot quotations for chips are about 45s.

Sandarac. — Moroccan is 12s. 9d. per lb. on the spot.

SARSAPARILLA.—Jamaican native red is quoted at 2s. 7½d. per lb., c.i.f. Spot is from 2s. 9d. to 2s. 10d.

SEEDS,—(Per cwt.).— ANISE.—Cyprian, 162s. 6d.; Bulgarian, 137s. 6d., duty paid. spot London. CARAWAY.—Dutch quiet with sellers quoting 145s., duty paid. with sellers quoting 145s., duty paid. CELERY.—Indian is in poor demand, 165s. CELERY.—Indian is in poor demand, 165s., quoted spot London, Coriander,—Firm. Spot: Moroccan is 60s., duty paid (55s., in bond); English, 70s.; Mid-European has been sold at 50s., duty paid. Shipment, Moroccan is firm with sellers quoting 52s, 6d, to 55s., c.i.f. Cumin.—Spot, Cyprian quoted at 125s. duty paid, Moroccan 127s. 6d., duty paid, Shipment, Cyprian is quoted at 115s. and Moroccan at 108s. 6d., both quotations c.i.f., London, DILL. — Indian is offering at 90s., spot London. Fennel. — Quiet, Sellers of Indian at 85s. spot London, Fenugreek.—Firm. Moroccan, 50s., duty paid. Shipment price has advanced to 41s., c.i.f. Mustard.—English 67s. 6d. to 85s. according to quality.

Senega.—No spot offers, New-crop for

SENEGA.—No spot offers. New-crop for ipment, 18s. 6d. per lb., c.i.f., shipment, nominal.

SENNA. — Tinnevelly LEAVES, (per lb.) prime No, 1, 1s. 1d.; No. 2 (dry crop), 10\{\frac{1}{4}d.\}; prime No, 3, 8\{\frac{1}{4}d.\}; f.a.q., No 3, 7\{\frac{1}{2}d.\}; PODS, f.a.q., 7\{\frac{1}{4}d.\}; hand-picked, medium quality 1s. 7d.\}; special green for shipment, 2s. 6d, quoted, c.i.f. Alexandrian manufacturing pods. 1s. 10d., spot and 1s. 7d., c.i.f. No hand-picked spot or forward. forward.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot.

SHELLAC. — Spot quotations are:— F.O.T.N. pure, 325s.; F.O. standard No. 1, 350s., nominal; fine orange, 375s. to 410s. per cwt., ex-London warehouse. 375s. to

SQUILL.—Italian on the spot is 76s. per cwt. and new-crop white for shipment, 55s., c.i.f.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TAMARINDS. -- Supplies of West Indian are offered at 50s. per cwt., duty paid.

Tragacanth.—No. 1 ribbon on the spot is £102 10s, per cwt.; No. 2, £85; No. 3,

TURMERIC.—Madras finger on the spot, 135s, per cwt. Shipment is firm with quotation of 130s., c.i.f.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE. — Spot supplies are offered at s. 9d, per lb. Shipment price quoted at 9s. 6d., c.i.f.

BAY,-W. Indian is 9s. 6d. per lb. on the spot.

BERGAMOT. — Spot value is about 80s. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

Bois de Rose. - Brazilian on the spot

is 31s. and 29s. 6d., c.i.f. CADE.—Spanish is about 2s. 3d. per lb.

on the spot for 1-cwt. lots. CAMPHOR, WHITE. - Chinese is 3s. 6d. per lb., on the spot.

CARDAMOM.—Price per lb. is from 370s, for English-distilled and 280s, for imported.

Cascarilla.—Imported is from 320s.

Cassia.—Original drums are about 9s. 6d. per lb. for spot and 8s. 9d., c.i.f.

CASTOR. — In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £139 per ton, naked, ex mill. Forward from £126 to £130 as to position

CITRONELLA. — Prices (per lb.) are:—Ceylon, spot, 5s, 9d. (buyers); August-September shipment, 5s, 3d., c.i.f.; Java, 7s, 3d., in bond; shipment, 7s, 2d., c.i.f.; Formosa, 7s, 3d., in bond, and 7s, 1d.,

CLOVE, — Madagascar leaf is 13s, per lb., duty paid, and 12s., c.i.f., for shipment. Redistilled stem oil from 19s., and English distilled bud oil is now offered at 45s.

EUCALYPTUS.—Australian 70 to 75 cent. eucalyptol on the spot is 4s, 10\frac{1}{2}d.
per lb., and 80 to 85 per cent., 5s. 3d.
Spanish, 70 to 75 per cent., 4s, 6d., duty

GRAPEERIUT —Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

JUNIPER BERRY. — Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s, to 80s.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 33s. per lb.

LAVENDER SPIKE. — Spanish is about 10s. 9d per lb.

LEMON.—B.P. (4 per cent. citral) on the spot is 38s. to 39s, per lb, Californian, 35s. 3d. to 52s. 3d., c.i.f., as to quality, subject to licence.

LEMONGRASS. — East Indian is 10s. per lb. on the spot and 9s. 9d., c.i.f.

OTTO OF ROSE.—Anatolian is offered on the spot at 300s. per oz., and Bulgarian, 480s, ex warehouse.

PALMAROSA.—East Indian is 60s. per lb., on the spot, and 57s. 6d., c.i.f., for

PATCHOULL.—Penang is 58s. 6d. per lb., duty paid.

PEPPERMINT. — Arvensis: Chinese is 21s. per lb., spot, and 20s. 6d., c.i.f., August-September shipment: Brazilian (45 per cent.), 19s., spot and 19s. 6d., c.i.f. for shipment, Italian "Mitcham" type oil is from 45s. to 47s. 6d. per lb. on the spot.

PIMENTO. — English-distilled herry is nominal with imported at 55s. Rectified leaf (imported), 25s. per lb.

ROSEMARY. — Spanish oil on the spot is about 5s. 6d. per lb., duty paid, for B.P. quality.

VETIVERT. - Bourbon in original drums on the spot is 90s, per lb.

UNITED STATES REPORT

NEW YORK, AUGUST 10: Imported CREAM OF TARTAR has risen to 26 cents per lb. (up one cent) but that price is below the domestic material, which sells at 32 cents. Speculative influences have helped Brazilian MENTHOL to firm to \$8.00 per lb. (a gain of 60 cents). Also higher are Japanese MENTHOL at \$13.00 (up 50 cents) and the synthetic \$7.50 (25 cents). CRUDE DRUGS are generally very quiet. Cape ALOES has dropped to 30 cents per lb. (down five cents) and GUM ARABIC, amber sorts, at 183 cents per lb. was down a quarter-cent. Higher per lb. among ESSENTIAL OILS are Algerian GERANIUM at \$10.25 (up 50 cents); and PETITGRAIN at £3:65 (15 cents). Lower per lb, are SPEARMINT at \$4:60 (down 20 cents); CLOVE, at \$3:25 (50 cents); and Californian LEMON, \$6:00 (25 cents). Lower also is GARLIC at \$6:10 per oz. down 65 cents GARLIC at \$6.10 per oz., down 65 cents.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 28 For cadmium compounds being chemical products for use in industry (1)
KARAMAX, 730,417, by W. Canning & Co.,

Ltd., Birmingham.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilct articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3)

VAL-PAK. 729,371, by the International Import and Export Corporation, Ltd., Nassau, Bahamas.

For all goods (5)

EUMEDA, 716,937, by Med Fabrik ChemischPharmazeutischer Präparate J. Carl Pfluger,
Berlin-Zehlendorf, Germany. EU-MEDA, EU-MEDA, Germany. EU-MEDA, CAMEDA, VROMEDA, 716,938-40, ARIS-TASEPT, 725,903, by Nordmark-Werke G.m.b.H., Holstein, Germany. PROXEL, 729,381, by Imperial Chemical Industries, Ltd., London, S.W.1. COMBALEUDRIN, 730,035, by C. H. Boehringer Sohn, Ingelheim-am-Rhein, Germany. LAEVOSAN, 730,498, by Cofferon A.G. Chem. Science. heim-am-Rhein, Germany. LAEVOSAN, 730,498, by Coffarom A.G., Glarus, Switzer-land. PRIMULSIM, 730,690, by Arthur J. Dickinson, Ltd., London, S.E.8.

For pharmaceutical preparations and substances (5)

INSPIROL, 718,106, by Lyssia-Werke, Dr. Kreuder Chem. Pharm. Laboratorium, Wiesbaden, Germany.

For tonic medicines in powder form for veterinary purposes, and tonic medicines in powder

form for human use (5)

TONATON, 718,507, by Luitpold-Werk Chemisch-Pharmazeutische Fabrik, Munich, Germany.

For preparations for killing weeds (5)

NOLATOX BRUSHKILLER, 719,149, by Naamlooze Vennootschap Noury & Van Der Lande's Exploitatie Maatschappij, Deventer, Holiand.

For pharmaceutical preparations and substances. medical and surgical plasters, bandages, pesti-cides, insecticides, herbicides, germicides, fungicides and disinfectants (5)

SOLPYRON, 721,690, by Firma Johann A. Wulfing, Dusseldorf, Germany.

For disinfectants, and preparations for killing

weeds and destroying vermin (5)
MALOZINE, 724,298, by Genatosan, Ltd.,
Loughborough, Leics.

For rodenticides (5)

CISTRAX, STRITAX, 730,339-40, by Farbenfabriken Bayer, A.G., Leverkusen, Ger-

For pharmaceutlcal preparations and substances for human use and for veterinary use all containing calcium compounds (5)

CALCI-OSTELIN, 730,597, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For disinfectants for use in dairies (5)
DAIRYSEAL, 730,709, by Calvert Manufacturing Co., Norwich, Norfolk.

For apparatus for use in connection with physics, optical, photographic apparatus (9)
MAKIFLEX, 714,238, by Plaubel Feinme-

MAKIFLEX, 714,238, by Plaubel Feinme-chanik und Optik, Frankfurt-am-Main, Ger-

For instruments and apparatus for the administration of oxygen for medical purposes (10)

OXYLITRE, B719,272, by Charles Bell, Manchester,

From the "Trade Marks Journal," August 4

For all goods (1)

VECTOGRAPH, 729,571, by Polaroid Corporation, Massachusetts, U.S.A.

For all goods (3)

DRIVO, 726,916, by Drivo, Croydon, Surrey.

For brilliantine (3)
VITABRILL, 727,005, by Laboratoires Vitapointe, S.A., Lyon-Villeurbanne, France.

For non-saponaceous toilet preparations (not medicated), toilet articles and cosmetic prepara-

NULIS, 730,708, by Reckitt & Colman, Ltd., Hull.

For semicarbazone of adrenochrome and preparatious and compounds of semicarbazone of adrenochrome, all being pharmaceutical products (5)

ADRENOXYL, B721,571, by Société Belge de l'Azote et des Produits Chimiques du Marly, S.A., Leige, Belgium.

For antibiotic pharmaceutical preparations (5) CREMOMYCIN, 727,869, by Sharp & Dohme, Ltd., Hoddesdon, Herts.

For pharmaceutical preparations (5)

TI-PON, 727,880, by Donald Josephs, Ltd., London, W.C.2.

For all goods (5)

MICROTRAST, 728,838, by Damancy & Co.. Ltd., Ware Herts. LINTAPLAST, B730,531, by Samuel Robinson & Co., Ltd., London, W.C.1. AMVIBLEND, 730,812, by Glaxo Laboratories, Ltd., Greenford, Middlesex. MUGON-RUPIL, 731,051, by Ryders, Kent.

For medicated confectionery containing pine extract (5)

ENAPINE, 729,119, by Medi-Swete Co., Harrow, Middlesex.

For medicinal preparations containing penicillin

SYNCILLIN, 729,664, by Farbe Bayer, A.G., Leverkusen, Germany. Farbenfabriken For elastic bandaging material prepared for sur-

gical purposes (5) ATLASTIC, 730,036, by Beacon & Janis, Ltd.,

London, W.C.1.

For medicated ointments (5)

PERNICREME, 730,104, by The British Drug Houses, Ltd., London, N.1.

For vitamin tablets prepared for pharmaceutical purposes (5)

Device of rising sun with the word GOLDEN DAWN, 730,232, by John Richardson & Co. (Leicester), Ltd., Leicester.

PRINT AND **PUBLICITY**

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharma-

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2: "Avoiding Resistant Strains by Combined Antibiotic and Sulphonamide Combined Antibiotic and Sulphonamide Therapy '' (8-p. booklet); "Hepal for Rapid Reticulocyte Response" (card).

Boots Pure Drug Co., Ltd., Nottingham: "The Clinical Uses of Cortisone Acetate" (32-p. booklet); "Ocusol Eye Drops," Tabillin Penicillin Tablets, B.P., in the New Foil-pac," "Alimex for Pepiic Ulcer and Gastric Hyperacidity" (6-p. folders).

THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1: "Scorbital Tablets," "Anahæmin in Herpes Zoster" (4-p. leaflets); "Mycil and Tablets of Dehydrocholin, B.D.H." (blotter); "Scorbital" (2-p. leaflet).

British Schering, Ltd., 229 Kensington High Street, London, W.8: "Oblivon," "Oblivon Elixir" (letters to doctors, and sampling cards); "Disecton" (card).

CIBA LABORATORIES, LTD., Horsham, Sussex: Rogitine Adrenolytic and Peripheral Vaso-ilator," "Antrenyl Anticholinergic and Spasdilator," "Antrenyl Anticholinergic and Spas-molytic," Apresoline for the Treatment of Hypertension," "Bradosol Antiseptic Lozenges" (18-p., 14-p., 12-p., and 4-p. booklets).

EVANS MEOICAL SUPPLIES, LTD., Speke, Liverpool: "Trypure Novo Crystalline Trypsin"

Replaces the 4-oz, size,

(12-p. booklet). "Praducil," "Collumina" (8-p. booklets); "Vade-mecum on Anticoagulants " (6-p. folder).

GEOEON RICHTER (GREAT BRITAIN), LTD., Weedington Road, London, N.W.5: "Laryn Antibiotic Anæsthetic Lozenges" (1-p. leaflet).

MEDICO-BIOLOGICAL LABORATORIES, LTD., Cargreen Road, London, S.E.25: "Sometical Mebiol. Nos. 5 and 6" (4-p. leaflets). " Secretin

PHARMACEUTICAL LABORATORIES GEIGY, LTD., Rhodes, Middleton, Manchester: "Report on Butazolidin; Abstracts from the Eighth Inter-Butazolidin; Asstracts from the Eighth Inter-national Congress of Rheumatic Diseases, Geneva, Switzerland, 1953 " (6-p. folder), "Eurax," "The Problem of Pruritus" (4-p. leaflets); "Synopen" (2-p. leaflet). "Eurax," "Tromexan" (1-p. leaflets).

ROCHE PROOUCTS, LTD., 15 Manchester Square, London, W.1: "Thephorin in Hay Fever" (card); "Asterol Anti-fungal Preparations" (6-p. folder). "Dromoran" (blotter).

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Amenorone" (4-p. folder).

SHARP & DOHME, LTD., Hoddesdon, Herts: "Sleep Without Barbiturates—Sommos" (4-p. folder), "Tracinets," "Melozets," "Stolic or Stolic Forte Tablets" (6-p. folders); "Cremosuxidine " (dosage card).

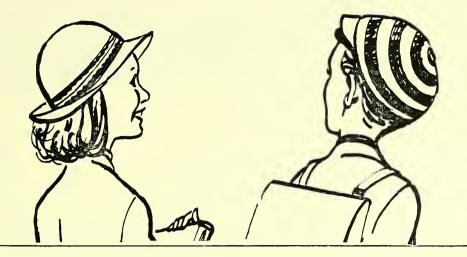
UPJOHN OF ENGLAND, LTD., 4 Aldford Street, Park Lane, London, W.1: "Kaopectate Curbs Diarrhœa" (4-p. folder); "Pamine Bromide" (blotter).

500

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C. & D. WEEKLY LIST OF PRICES

A-Advanced; R-Reduced; I.R.PInclusive	e Reta	il Price; *=Tax 25 per cent.; †=Tax 75 per cent.				
ALLEN & HANBURYS, LTD. MOORE MEDICINAL PRODUCTS, LTD. (from						
Doz. I.R.	P	August 16)				
Ascorbic acid tablets.	• •	Codella emollient cream*				
	R	3½ oz. 32 0 4 6				
Each						
1,000 5 3 7 11	R	NEW PRODUCTS				
25 mgm., 100 21 9 2 9	R	AND PACKS				
Each						
1,000 12 0 18 0) R	THE BRITISH XYLONITE CO., LTD.				
Doz.		Halex nailbrush (sterilis-				
50 mgm., 100 31 3 3 11	. R	able) 5 6				
Each	_	DETENDORISHED BUILD AND A AND				
1,000 20 0 30 0	R	BURROUGHS WELLCOME & CO.				
NUMOL, LTD. Doz.		Wellcome improved braxy- blackleg vaccine, 50 c.c. 10 6				
Numoi 4 oz. 17 0 2 0						
8 oz. 31 0 3 6 16 oz. 44 0 5 0	R	100 c.c. 18 0				
16 oz. 44 0 5 0	R	JOHNSONS OF HENDON, LTD.				
48 oz. 102 0 11 6	R	Ultrafix fixing solution.				
P.A.T.A. PROTECTED LIST		20 oz. 7 6 hardener solution, 4 oz. 2 3				
(Prices notified this week by the Proprie	tary	initiating solution, 7 obs				
Articles Trade Association.)		RIKER LABORATORIES, LTD.				
MOORE MEDICINAL PRODUCTS, LTD. (6)		Rauwiloid and hexame- Each				
August 16)	rom	thonium tablets, 100 24 8 37 0				
Codella emollient cream*		500 111 0 166 0				
	A					
		SHARP & DOHME, LTD.				
ADDITIONS TO THE PROTECTED LIS	T	Tyotocin ear drops* 7 0				
ALLEN & HANBURYS, LTD.						
Allenburys sugarless pas-	-	CROOKES LABORATORIES, LTD.				
tilles, 2 oz. 13 6 1 6	,	Pertenal tablets*, 50 9 4				



A <u>new</u> treatment for threadworm infestation

'Entacyl' (piperazine adipate tablets), has been found to be particularly effective in the eradication of threadworm infestation. Its action is rapid. Its taste is pleasant. Administration is not accompanied by nausea or other side effects even in very young children. Complete eradication is obtainable without the use of an enema.

'ENTACYL'

Tablets containing Piperazine Adipate 300 mg.

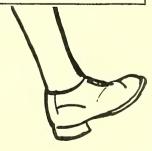
(Brit, Pat. Appn. No. 29123/53)

		TRADE	RETAIL
			(Incl. Purchase Tax)
Bottles	of 25	3/-	5/3
,,,	,, 100	10/-	17/6
••	., 500	42/-	



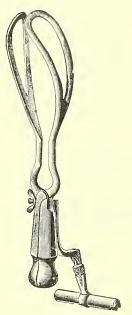




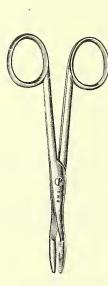


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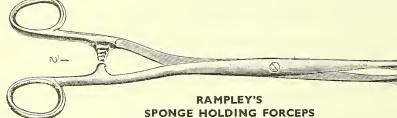
NEVILLE'S MIDWIFERY FORCEPS



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OR SCISSOR HANDLE
DRESSING FORCEPS



CHEATLE STERILISER FORCEPS



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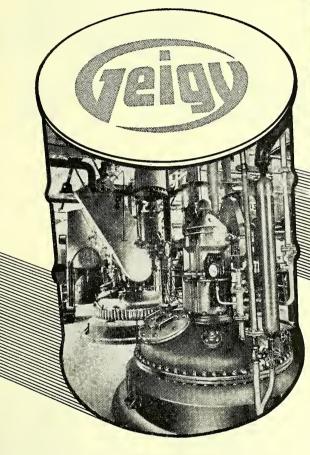
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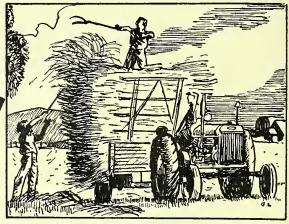
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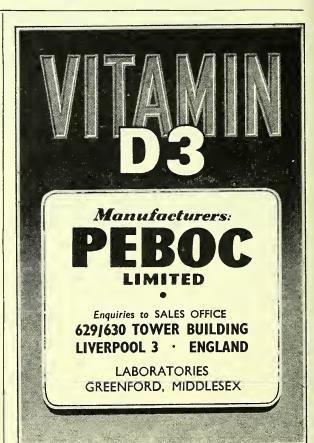
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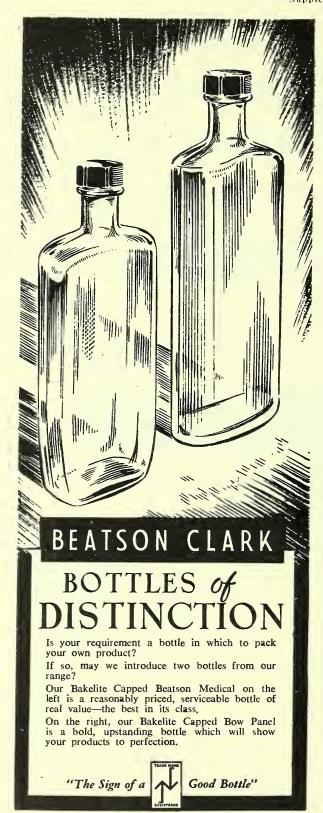
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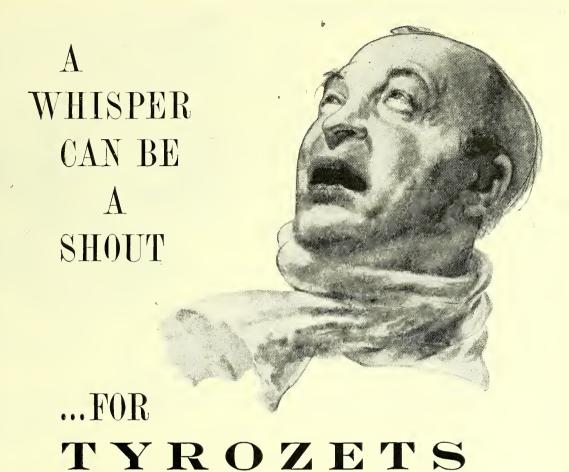
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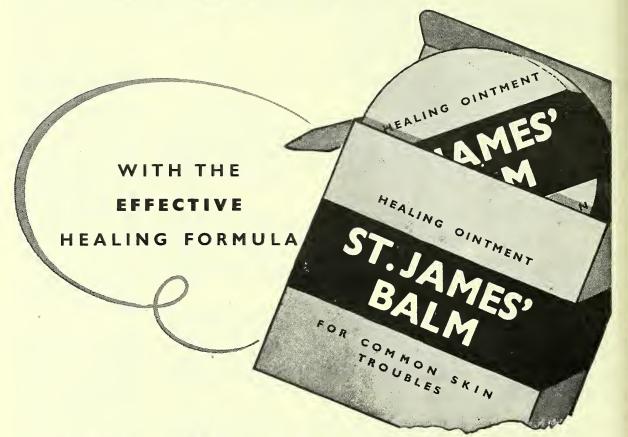
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PART-TIME PHARMACISTS required, Even-

C 1619.

PART-TIME PHARMACISTS required, Evenings 6-8 p.m., and Sunday Mornings, 8/- an hour. Dispensing duties, Apply Kendale Dispensing Chemists, 51 Exmouth Street, E.C.I. Phone: TERminus 9494. C 7416 TIMOTHY WHITES & TAYLORS have a number of vacancies in various areas:—(1) Qualified branch managers, (2) Pharmacists to act as sickness and holiday relief managers. Long or short periods, Salary and expenses, Applications should give brief particulars of age and experience, district preferred and be sent to:—Mr. A. Bailey, Timothy Whites & Taylors, Burley Hill. Leeds, 4. C 7402 WANTED, PHARMACIST (male or fernale) as superintendent. House available. Rent free, Good hours and conditions, No Sunday work. Wases 14 gns, weekly, Apply to the Gamdiffaith & Varteg Co-operative Society, Ltd., Gardiffaith, Mon. C 1574 WANTED URGENTLY: Qualified chemist for country pharmacy, Steady counter trade, fair amount dispensing. Population 1,600 approx. country pharmacy, Steady counter trade, fair amount dispensing, Population 1,600 approx. Six-roomed house available. Very nice surrounding country, good-class clientele. Box rounding C 1598.

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Staff restaurant, Please write in the first
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Due Date for
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	Tenders
	10 a.m. on
Glyccrine	Sept. 4, 1954
Malt Extract	Sept. 4, 1954
Dextrose	Sept, 4, 1954
Liquid and Soft Paraffin	Sept. 4, 1954
Antiseptic Fuids	Sept. 4, 1954
Methylated Spirit	Sept. 4, 1954
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	Sept. 11, 1954
Medicinal Tablets and Pills	
Medicines and Drugs	
Applications for tender forms	
in writing to the Secretary	
Health for Scotland, Room	
House, Edinburgh, 1, and	
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which forms are required s	
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C 7404

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